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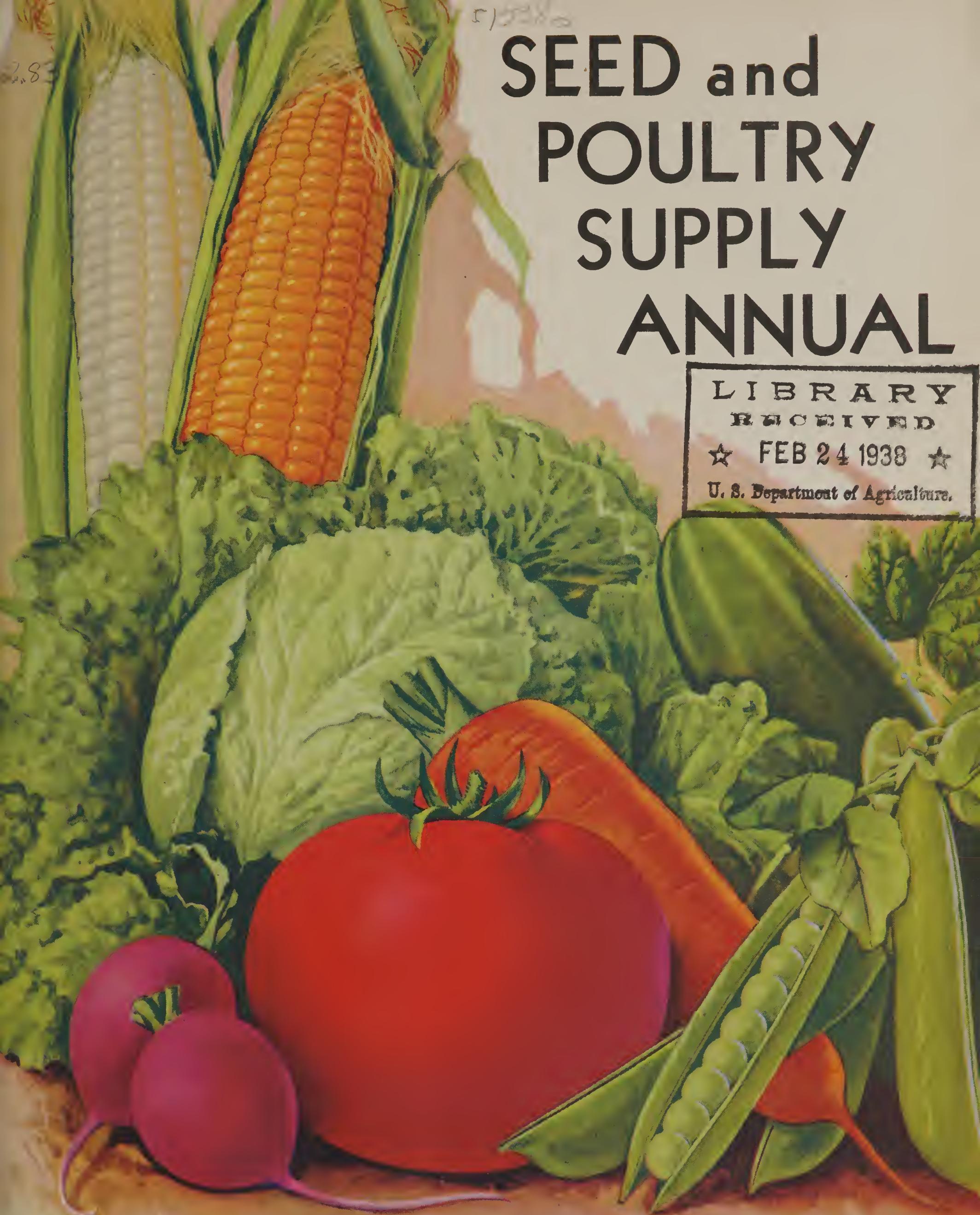
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# SEED and POULTRY SUPPLY ANNUAL

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# SATEX SEED CO.

529 So. Flores St.

San Antonio, Texas

# CONFIDENCE

When you send your order to us you can do so with the absolute confidence that you will receive your seeds, plants, poultry supplies or any other item that you have ordered to be exactly as described in the catalog. It has been our constant endeavor to serve you faithfully—whether your order be large or small. No order is too small, no inquiry too simple for us to give it our personal attention. Every order receives the same attention regardless of size. SATEX SEEDS have earned for themselves an enviable reputation for reliability and dependability of which we are justly proud. Our seeds are bred by the finest growers in this and foreign countries to meet the most exacting requirements of the most critical and amateur gardeners. Every order filled same day it is received assuring you of no delay. Any order received by 5:30 P.M., will be forwarded the same day. Send us your order now or whenever you are ready for same. You will like our quick efficient service and the splendid quality of our merchandise. We sell only one grade — THE FINEST.

**HOW TO ORDER** You will find an order blank and addressed envelope enclosed with this catalog. Write your name and address plainly. Be sure to specify how you want your order shipped unless it is a postpaid order. We fill all orders the day received, unless unable to supply same at the time, and will advise you accordingly, so do not hesitate to write us if the goods do not show up.

**REMITTANCES** should be made by Postoffice Money Order, Bank Draft or Personal Checks. On orders up to One Dollar, we will accept clean unused postage stamps. If currency is sent, letter should be registered. The proper way is to send remittance in full to cover order and postage. We send orders C.O.D. only if 25 per cent of the amount of order is enclosed. **PLANTS ARE NEVER SENT C.O.D.**

**MEXICO CUSTOMERS**—Add 20c for first pound and 11c for each extra pound to prices, also 15c for registration. We ship up to 20 pounds per package into Mexico.

**ALL GARDEN AND FLOWER SEED** listed in catalog are postpaid up to the fifth zone unless otherwise noted. Field Seeds, Bulbs, Poultry Supplies, Remedies, Insecticides, etc., are quoted F.O.B. San Antonio. If you desire same shipped by parcel post, see parcel post rate below for additional amount to be enclosed with order.

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We guarantee the safe delivery of all Seeds, Bulbs, Plants or merchandise that you order from us. We guarantee all merchandise to be exactly as illustrated, described and represented. Any item not found to be entirely satisfactory, will be replaced free of charge, or we will refund you every cent you paid, including transportation charges both ways.

Even with the highest quality Seeds, Bulbs, and Plants, success in gardening or farming depends largely on cultivation, soil and weather conditions. Therefore—

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## PARCEL POST RATES

### Zones

Lbs.	1 & 2	3rd	4th	5th	6th	7th
1	\$0.10	\$0.10	\$0.11	\$0.12	\$0.13	\$0.15
2	.10	.11	.14	.17	.19	.23
3	.11	.13	.17	.22	.26	.32
4	.12	.15	.21	.27	.33	.41
5	.13	.17	.24	.33	.40	.50
6	.14	.19	.28	.38	.47	.59
7	.15	.21	.31	.43	.54	.68
8	.16	.23	.35	.49	.61	.77
9	.17	.25	.38	.54	.68	.86
10	.18	.27	.42	.59	.75	.95
11	.19	.29	.45	.64	.82	1.04
12	.21	.31	.49	.70	.89	1.13
13	.22	.33	.52	.75	.96	1.22
14	.23	.35	.56	.80	1.03	1.31
15	.24	.37	.59	.86	1.10	1.40
16	.25	.39	.63	.91	1.17	1.49
17	.26	.41	.66	.96	1.24	1.58
18	.27	.43	.70	1.02	1.31	1.67
19	.28	.45	.73	1.07	1.38	1.76
20	.29	.47	.77	1.12	1.45	1.85
21	.30	.49	.80	1.17	1.52	1.94
22	.32	.51	.84	1.23	1.59	2.03
23	.33	.53	.87	1.28	1.66	2.12
24	.34	.55	.91	1.33	1.73	2.21
25	.35	.57	.94	1.39	1.80	2.30
26	.36	.59	.98	1.44	1.87	2.39
27	.37	.61	1.01	1.49	1.94	2.48
28	.38	.63	1.05	1.55	2.01	2.57

### Zones

Lbs.	1 & 2	3rd	4th	5th	6th	7th
29	.39	.65	1.08	1.60	2.08	2.66
30	.40	.67	1.12	1.65	2.15	2.75
31	.41	.69	1.15	1.70	2.22	2.84
32	.43	.71	1.19	1.76	2.29	2.93
33	.44	.73	1.22	1.81	2.36	3.02
34	.45	.75	1.26	1.86	2.43	3.11
35	.46	.77	1.29	1.92	2.50	3.20
36	.47	.79	1.33	1.97	2.57	3.29
37	.48	.81	1.36	2.02	2.64	3.38
38	.49	.83	1.40	2.08	2.71	3.47
39	.50	.85	1.43	2.13	2.78	3.56
40	.51	.87	1.47	2.18	2.85	3.65
41	.52	.89	1.50	2.23	2.92	3.74
42	.54	.91	1.54	2.29	2.99	3.83
43	.55	.93	1.57	2.34	3.06	3.92
44	.56	.95	1.61	2.39	3.13	4.01
45	.57	.97	1.64	2.45	3.20	4.10
46	.58	.99	1.68	2.50	3.27	4.19
47	.59	1.01	1.71	2.55	3.34	4.28
48	.60	1.03	1.75	2.61	3.41	4.37
49	.61	1.05	1.78	2.66	3.48	4.46
50	.62	1.07	1.82	2.71	3.55	4.55
55	.68	1.17				
60	.73	1.27				
65	.79	1.37				
70	.84	1.47				

Zones are based on the distance you are from the shipping point, San Antonio, Texas. Up to 150 miles from San Antonio is the 1st and 2nd zones, which take the same rate; 150 to 300 miles is the 3rd zone; 300 to 600 is the 4th; 600 to 1000, the 5th; 1000 to 1400, the 6th; 1400 to 188, the 7th; over 1800 miles, the 8th zone.

# SATEX FRESH VEGETABLE SEEDS FOR 1938 SEASON



Martha Washington

## Asparagus (Espirragos)

**CULTURE**—Sow seed thinly in drills 1 foot apart early in the spring or fall, after soaking seed in warm water for 1 hour. Use a rich well worked light soil and, when well up, thin plants to 1 inch apart and cultivate often until the plants are a year old.

Transplant or set out the roots in permanent bed, using the richest soil you have thoroughly prepared and worked very deep. Set roots 4 inches deep and 18 inches apart in rows 4 to 6 feet apart. Cultivate frequently until plants meet in the rows. Use plenty of stable manure or other fertilizer on bed before and after setting out roots, mixing well into soil.

**MARTHA WASHINGTON**—Light green, heavy yielding early producing large, clear stalks of excellent quality. Very early.

Pkt. 5c; oz. 10c; 1/4 lb. 30c; 1 lb. 75c.

## BEANS Green Bush Beans

1 lb. to 100-ft. row

**CULTURE**—Plant beans after all danger of frost is past, in warm, dry, well-prepared soil. The rows should be 2 to 3 feet apart, and the seeds covered 1 to 1½ inches. Shallow cultivation should be frequent until blooming then stop, to avoid injury to the root. For succession, plant every two weeks until summer. Frequent picking of the crop insures long bearing.

**BURPEE'S STRINGLESS GREEN POD**—52 days—The pods are medium green, 5 to 6 inches long, cylindrical, larger than those of the Red Valentine but not quite as fleshy, of equally high quality and remain crisp and tender longer. Absolutely stringless.

Pkt. 10c; 1b. 30c, postpaid. 10 lbs. \$1.50, not postpaid.

**GIANT STRINGLESS GREEN POD**—54 days—Another exceptionally fine bean for home or market, perfectly stringless, pods longer than Burpee's Stringless, strong, vigorous grower, and a continuous bearer of delicious beans for weeks.

Pkt. 10c; 1b. 30c, postpaid. 10 lbs. \$1.50, not postpaid.

**TENDERGREEN or NEW STRINGLESS GREEN POD**—52 days—Highly desirable for truckers and canners. Plant medium large, erect somewhat thick-stemmed, heavily productive. Pods nearly straight, dark green, round, meaty, succulent, absolutely stringless, of outstanding quality.

Pkt. 10c; 1b. 35c, postpaid. 10 lbs. \$1.75, not postpaid.

**EARLY STRINGLESS REFUGEE**—53 days—A great improvement over the old Refugee or 1000-to-1. Pods are about 5 inches long, curved and dark in color. This variety is absolutely stringless. Now considered one of the best early sorts.

Pkt. 10c; 1b. 30c, postpaid. 10 lbs. \$1.50, not postpaid.

## Bush Lima Beans

**HENDERSON'S DWARF LIMA**—66 days—The earliest variety of dwarf Lima Beans, fully 2 weeks earlier than any other variety. Plants about 16 inches high and very prolific. Beans are small. Recommended to anyone desiring early Lima Beans.

Pkt. 10c; 1b. 30c, postpaid; 10 lbs. \$1.50, not postpaid.

**SPECKLED BUSH LIMA**—65 days—This variety is generally known as "calico or speckled" butter bean. The beans are of fine quality, either green-shelled or dry. It is very prolific and does well in the driest weather. The seed is sort of a brownish color.

Pkt. 10c; 1b. 35c, postpaid.

## Pole Lima Beans

**CAROLINA or SIEVA**—77 days—Beans are small and white on the order of Henderson Bush Lima. Plant of large growth, very early, vigorous and productive.

Pkt. 10c; 1b. 35c, postpaid.

**POLE SPECKLED LIMA**—78 days—This fine Butter Bean is better adapted for the wants of the Southern farmer than any other variety. It is a certain and abundant cropper. The vines are strong growers and cling well to the poles or trellis. Bear early and late. Both pods and beans are larger than the old white Carolina or Sieva Butter Beans; the beans are speckled in color, white splotched with red but are of the very highest quality, both in the green and dry state.

Pkt. 10c; 1b. 35c, postpaid.

## Pole Beans

1/2 lb. to 100-ft. row

**IDEAL MARKET or BLACK-SEEDED POLE BEAN**—58 days—This bean is acknowledged to be the best pole bean in existence. It yields better than all other varieties and is very thrifty and extremely prolific. The pods are thick, stringless, meaty, tender and delicious.

Pkt. 10c; 1b. 35c, postpaid.

**STRIPED CREASEBACK**—72 days—A hardy and very productive green podded cornfield bean. The vines are sturdy and of good climbing habit, with small-medium, deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded.

Large pkt. 10c; 1 lb. 30c, postpaid.

**KENTUCKY WONDER**—65 days—An excellent green-podded variety; enormously productive, the long pods hanging in great clusters along the entire vine. They cook very tender and melting. Seed dark brown.

Pkt. 10c; 1b. 30c, postpaid.

**KENTUCKY WONDER (WAX)**—68 days—One of the earliest of the pole wax sorts. Pods 8 to 9 inches long, thick, decidedly creaseback; very fleshy, brittle, but stringy. Attractive and fair quality. Color light yellow.

Pkt. 10c; 1b. 35c, postpaid.



Stringless Green Pod

## Bush Wax Beans

**IMPROVED GOLDEN WAX**—49 days—One of the best beans in cultivation. Pods are long, nearly straight, broad and flat, and golden yellow; seed white, more or less covered with two shades of purplish red.

Pkt. 10c; 1b. 30c, postpaid; 10 lbs. \$2.00, not postpaid.

**PROLIFIC BLACK WAX**—51 days—Early; pods are round, about 5 inches long, fleshy, brittle and stringless, deep yellow in color and attractive. Standard sort.

Pkt. 10c; 1b. 30c, postpaid; 10 lbs. \$2.00, not postpaid.

**PENCIL POD WAX**—52 days—Early and very productive; pods large, 5 to 6 inches long, round, straight and creaseback, strictly stringless, free from fibre, fleshy and brittle; of highest quality; color very clear yellow.

Pkt. 10c; 1b. 30c, postpaid; 10 lbs. \$2.00, not postpaid.

## Field Beans

**PINTO BEANS**—Grown mostly for a dry bean but makes a good snap bean when the pod is young and green. Pods are flat and tender.

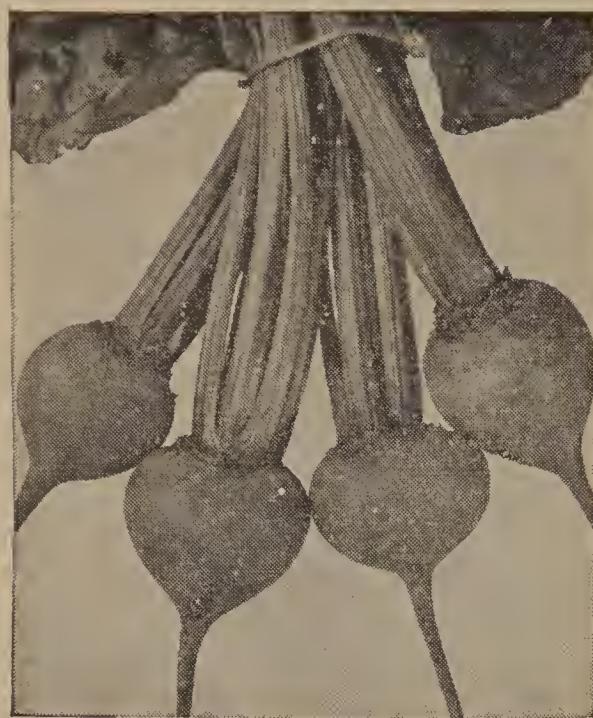
Lb. 25c, postpaid.

**PINK BEANS**—These beans are grown as a dry bean and find a ready market.

Lb. 25c, postpaid.

## Garden Beets

**CULTURE**—Plant Beets in rows 18 to 24 inches apart in well prepared soil. Cover seed about 1 inch and thin to a 4-inch stand when plants are up. Plant 1 ounce to 50-foot row; 5 pounds to acre.



Detroit Dark Red

**FERRY'S CROSBY**—50 days—The flesh is bright vermillion red with fainter zoning. Tops are small, but fairly coarse. Root flattened, globe shape with small tap root.  
Pkt. 5c; oz. 10c; 1/4 lb. 35c; lb. \$1.00, postpaid.

**CROSBY'S EGYPTIAN**—60 days—We have an unequalled strain of this superb, extra early sort. A flattened globe shape; skin very dark red, flesh a trifle lighter in color and slightly zoned. Tops small.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.

**EXTRA EARLY LIGHT ECLIPSE**—65 days—A fine early table beet, top-shaped or tapering, globe shape. Flesh deep crimson, zoned with pink. Crisp and sweet.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.

**DETROIT DARK RED TURNIP**—68 days—Roots are roundish, smooth; dark red; flesh is bright red zoned with lighter; crisp, tender, sweet; good keeper.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.

**EARLY BLOOD TURNIP**—65 days—A standard, medium early variety of excellent quality; is also good for summer and fall use. The flesh is deep red, zoned with a lighter shade; sweet, crisp and tender; nearly round.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.



Broccoli

## Swiss Chard



The Great Summer Greens

**CULTURE**—Assures an abundance and never-failing supply of fine "greens" all through the summer and fall months. Gives maximum returns for little care and space. Gather when half grown for best flavor. Cut close without injuring heart of the plant, and another crop will spring up. Grows in any ordinary garden soil. In rich soil, however, and with good culture, it makes an amazingly luxuriant growth and furnishes an abundance of greens. Sow in rows 12 inches apart, and thin to 5 inches apart in the row. One ounce will sow 100 feet of row; 4 to 5 pounds per acre.

**FORDHOOK GIANT**—50 days—No other garden vegetable will produce more nutritious food from a small space than Swiss Chard. Of rapid growth. Foliage and leaf stalks used same as Asparagus or Spinach.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.

**LARGE-RIBBED WHITE**—50 days—Large, smooth leaves of thick texture grown mostly for the heavy main ribs, which are prepared like Asparagus. The green succulent foliage is used like Spinach. An old standard variety which still is grown also quite extensively for its pearly white stalks.  
Pkt. 5c; oz. 10c; 1/4 lb. 30c; lb. 90c, postpaid.

**CULTURE**—Sow in seed-bed during July, August and September. Transplant in very rich soil in rows 2 1/2 feet apart, 1 1/2 feet between plants. Matures best during cool weather. We recommend 600 pounds 4-12-4 Fertilizer mixture applied when land is prepared. An extra top-dressing of nitrate of soda will stimulate growth. One ounce will produce 1,500 plants; 4 to 6 ounces, an acre.

**CALABREZE GREEN SPROUTING**—65 days—This is a distinct variety grown by Italian market-gardeners for Italian trade only. The plant forms a large solid head which remains green. After this head is cut off, a number of smooth sprouts develop from the leaf-axes, each sprout terminating in a small head about 1 inch in diameter. Bunched and sold as a second crop. Sow seed in frames early in spring; market in June and July.  
Pkt. 5c; oz. 30c; 1/4 lb. 85c; lb. \$2.50, postpaid.

## BEETS FOR STOCK FEEDING

### Mangel Wurzel

**CULTURE**—Much depends on good culture, so prepare your land thoroughly and plow deeply. Sow from about the middle of March until the middle of June, and give thorough cultivation. After the first cultivation, thin out so as to stand 10 inches apart in the row, and cultivate like corn. If late in planting, soak the seed for 24 hours before planting. Sow 4 to 5 pounds to the acre in rows 2 1/2 feet apart. Thin to 12-inch stand.

**GIANT FEEDING SUGAR (Half Sugar Mangel)**—110 days—A beet which is superior to Mangels for stock feeding purposes, as it is more nutritious, having a large amount of sugar. It is oval in shape, grows partly out of the ground, of large size and yields enormous crops.  
Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 50c, postpaid.

**IMPROVED MAMMOTH LONG RED**—110 days—The largest of all the Mangels and the heaviest cropper. Skin is red, flesh white zoned with red. This variety produces a larger amount of good feed than any other beet and is recommended as superior to all others.  
Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 50c, postpaid.

## Cabbage

**CULTURE**—For plants in hot-beds, sow seed early in January, then transplant in open in February and March. Later sow early varieties out-of-doors in March and April. For winter cabbage, sow seed in July, August and September, then transplant in October. One ounce of seed will produce about 3,000 plants; 10 ounces of seed will produce enough plants to set out an acre in rows 30 inches apart. See page 8 for Cabbage Plants.

**VOLGA or RUSSIAN**—85 days—A new medium sized sort with round, solid heads, which are deep through. It is extremely hardy.  
Pkt. 5c; oz. 20c; 1/4 lb. 65c; lb. \$2.00, postpaid.

**RED ROCK**—110 days—The largest and surest heading cabbage, round, solid and dark red; medium to long stem.  
Pkt. 5c; oz. 25c; 1/4 lb. 75c; lb. \$2.00, postpaid.

**EARLY JERSEY WAKEFIELD**—65 days—The most widely known and popular extra early variety. Heads solid; leaves numerous, deep green and coarsely crimped.  
Pkt. 5c; oz. 20c; 1/4 lb. 50c; lb. \$1.50, postpaid.

## Cabbage



All-Head Early

**ALL-HEAD EARLY**—77 days—Deep flat heads slightly rounded at top, 8 to 9 inches broad,  $6\frac{1}{2}$  to 7 inches deep, usually weigh about 6 pounds. Uniform in size and color. The solid heads are of the finest quality. A heavy yielder.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**DRUMHEAD SAVOY**—90 days—Heads round, compact, solid; leaves numerous, deep green and coarsely crimped.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid.

**EARLY DRUMHEAD**—90 days—We recommend this sort for markets that require a very large and deep head. Plant large with few outside leaves, stem of medium length; a sure heading variety of excellent quality.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**CHARLESTON WAKEFIELD**—75 days—About one week later than Early Jersey Wakefield, but the conical heads are fully one-half larger.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**STEIN'S EARLY FLAT DUTCH**—90 days—An early and excellent type of Early Flat Dutch, with a medium stem. Heads round, flat and solid.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**COPENHAGEN MARKET**—75 days—Very fine, stem short, heads large, round and solid, with few outer leaves of an upright growth. Nearly as early as Jersey Wakefield.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid.

**GLORY OF ENKHUIZEN**—85 days—A dependable variety heading right after Copenhagen Market.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**CHINESE CABBAGE (Pe Tsai)**—75 days—Sometimes called Celery Cabbage; resembles Cos Lettuce as much as Cabbage, though with a decided cabbage flavor.

Pkt. 5c; oz. 50c;  $\frac{1}{4}$  lb. \$1.50; lb. \$3.50, postpaid.

## Cauliflower

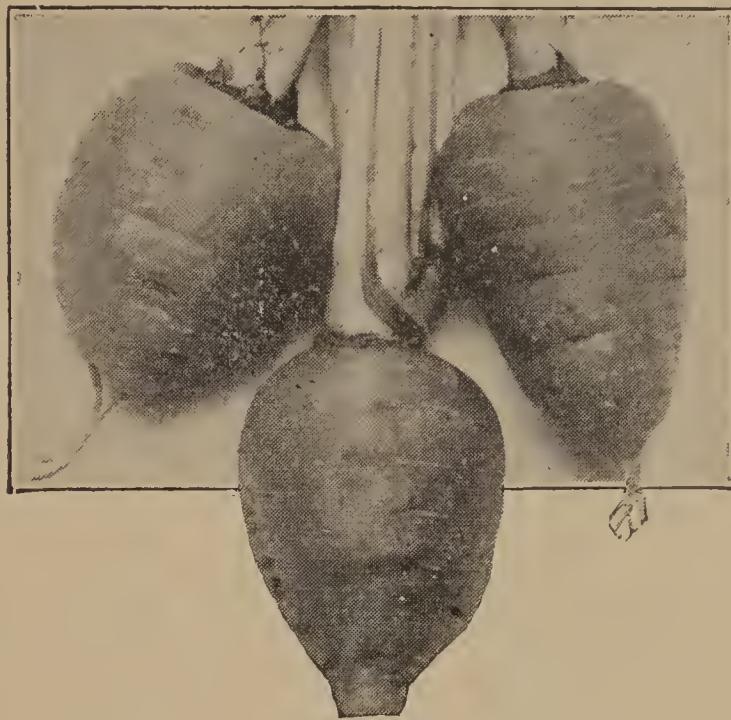


**WHITE WONDER**—55 days—We believe this to be the best variety in existence, about 7 days earlier than Early Snowball. It is early, of dwarf compact growth and sure to produce fine heads. Very much depends on the quality of Cauliflower seed. We handle only the best Danish-grown seed from a well known, reputable grower, which we confidently recommend.

Pkt. 20c; oz. \$2.00;  $\frac{1}{4}$  lb. \$6.00; lbs. \$20.00, postpaid.

**EARLY SNOWBALL**—65 days—Popular extra early strain, of dwarf, compact growth. Every plant will make a fine solid head of good size, under favorable circumstances. Pkt. 10c;  $\frac{1}{4}$  oz. 50c; oz. \$2.00;  $\frac{1}{4}$  lb. \$5.00; lb. \$15.00, postpaid.

## Carrots



Oxheart

**CULTURE**—Plant the seed  $\frac{1}{2}$  inch deep in loose, deep, well prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as plants are established and thin to 2 to 4 inches in the rows, according to the size of the variety. One ounce will sow 100 feet of row; 3 to 4 pounds, an acre.

**ORANGE DANVERS HALF LONG**—75 days—Broad shouldered, cylindrical, admirable in color. Always a favorite because reliable and attractive in form, color and weight. Most popular sort.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**OXHEART or GUERANDE**—72 days—One of the most popular and best croppers among the short carrots. The shape is particularly desirable for heavy soil. The true type is about  $4\frac{1}{2}$  inches long and  $3\frac{1}{2}$  inches thick at the shoulder. It tapers slightly to the bottom and is very stump-rooted.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**CHANTENAY**—72 days—One of the best carrots for all purposes. Roots about 6 inches long, blunt pointed, smooth, fine grained, sweet, a heavy yielder.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**MORSE BUNCHING**—80 days—Tops short, foliage rather shortly cut, stems medium size and strong. Roots at maturity  $1\frac{1}{4}$ — $1\frac{1}{2}$  by 8 inches in size. Almost cylindrical with rounded shoulders and are well stumped.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.



Georgia Southern

## Celery

**CULTURE**—Start seed in partly shaded seed-beds of very rich, fine, loose soil. Cover seed not over  $\frac{1}{4}$  inch. Transplant when 6 inches high, in rows 24 inches apart, and set the plants 6 inches apart in the rows. One ounce will produce 3,000 plants; 2 to 4 ounces will set an acre.

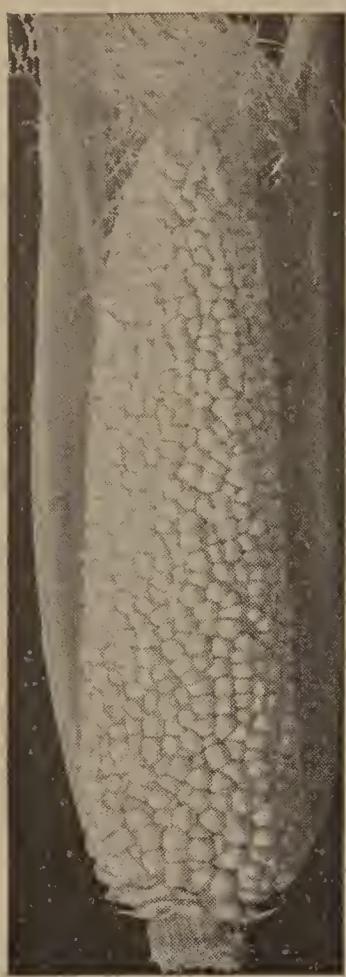
**GOLDEN SELF-BLANCHING**—120 days—The best market variety especially for early summer. The plant is naturally golden-yellow both stem and leaves, but needs to be blanched to make it brittle; fit for table use; forms rather small bunch. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00, postpaid.

## Collards

**CULTURE**—Sow collards as you would cabbage, the plants should be spaced about 2 feet apart in rows. One ounce of seed will produce about 2,000 plants.

**GEORGIA SOUTHERN**—Plant 2 to 3 feet high, forming a cluster of tender undulated leaves at the top of its rather long stem; used as greens.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.



## Sweet Corn

**CULTURE**—It is well to wait until the ground is warm before planting sweet corn as it is more susceptible to cold than field corn. Plant in rows  $2\frac{1}{2}$  to 3 feet apart and place seed 10 to 12 inches apart in the rows. Cover the seed 1 inch deep. Give frequent and shallow cultivation until tassels appear. Plant 1 lb. to 100-ft. row—10 lbs. to an acre.

**EXTRA EARLY ADAMS**—75 days—This is not a Sugar Corn, but is earlier. The ears are short, 12-rowed, and while in condition for roasting cannot be told from Sugar Corn. It will stand earlier planting than Sweet Corn and is a favorite wherever worms work badly on early corn.

Pkt. 10c; lb. 25c, postpaid.

**GOLDEN BANTAM**—80 days—Early; golden yellow in color and of highest quality. Ears 6 to 7 inches long, 8-rowed, bearing from 2 to 4 ears to a stalk.

Pkt. 10c; lb. 30c, postpaid.

**COUNTRY GENTLEMAN**—90 days—An especially fine quality corn, cob small, white and densely covered with long slender white grains without row formation.

Pkt. 10c; lb. 30c, postpaid.

**TRUCKERS' FAVORITE**—85 days—A splendid early white corn, coming in directly after Adams Early but much larger. Has a deep white soft grain.

**Country Gentleman**

Pkt. 10c; lb. 30c, postpaid.

**STOWELL'S EVERGREEN**—95 days—A standard main crop variety, much used for the home garden, market and canning. Hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling.

Pkt. 10c; lb. 30c, postpaid.

Pkt. 10c; lb. 30c, postpaid.

Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**IMPROVED LARGE PURPLE (Spineless)**—83 days—This variety is a genuine favorite both for market and home garden. The plant is spineless, large and spreading, with light green foliage. It usually produces 4 to 6 large, oval fruits of a splendid dark purple color. The vigor and productiveness and fine quality of the fruit makes it a most profitable variety for market gardening.

## Egg Plant

**CULTURE**—Egg Plant seed germinates slowly and should be started in hot beds in February. Set the plants in open ground in April and May. Space the young plants  $2\frac{1}{2}$  to 3 feet apart in rows. One ounce of seed will produce 1,500 plants or more, a quarter pound of seed sufficient for an acre.



**Black Beauty**

**BLACK BEAUTY**—81 days—Rich dark purple, large and symmetrical, maturing a little earlier than our Improved Large Purple, but usually not quite as large. Very desirable for the market, as the fruit holds its color for a long time.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**IMPROVED LARGE PURPLE (Spineless)**—83 days—This variety is a genuine favorite both for market and home garden. The plant is spineless, large and spreading, with light green foliage. It usually produces 4 to 6 large, oval fruits of a splendid dark purple color. The vigor and productiveness and fine quality of the fruit makes it a most profitable variety for market gardening.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

## Cucumbers



**Early Fortune**

**EARLY FORTUNE**—65 days—Early, good dark color and prolific. Fruits average about 10 inches.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**EXTRA LONG WHITE SPINE or EVERGREEN**—65 days—A fine strain; smooth, frequently 10 inches long; round, handsome, very regular.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**IMPROVED CHICAGO PICKLING**—59 days—Meets the most exacting requirements of critical pickle makers. Vines healthy and very productive. Fruit the right size, shape, color and quality.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**STAY-GREEN**—55 days—"Stay-Green" is the earliest of the White Spine type; fruit 7 to 8 inches long, cylindrical in shape. Color a beautiful dark green from stem to blossom end, which is retained longer than any variety we know of. Vigorous grower, enormous yielder, shipping quality unexcelled, and always commands the highest market price.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**IMPROVED EARLY WHITE SPINE**—60 days—Vines vigorous, fruiting early and abundantly. Fruit good-sized, straight and smooth. Splendid for table use and especially desirable for pickles.

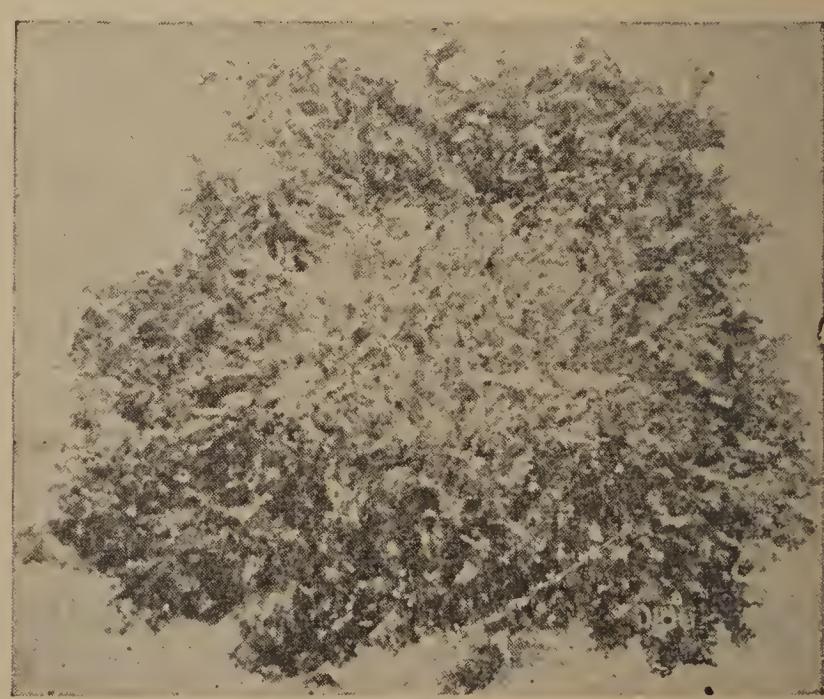
Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**IMPROVED LONG GREEN**—70 days—Uniform in size, straight, smooth; deep green in color and a great favorite for slicing.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

**STRAIGHT EIGHT**—65 days—Produces symmetrical, almost cylindrical fruits, well rounded at both ends, quite straight, regularly 8 inches in length and from  $1\frac{1}{4}$  to 2 inches in diameter. Deep green color; usually free from objectionable pale striping and tipping.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.



**Ever White Curled**

**LARGE GREEN CURLED**—95 days—Has very curly leaves, the mid-ribs being white and whitish, and the outer edges very much indented and crested. A very attractive plant and one of the best varieties.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

**EVER WHITE CURLED**—100 days—The plants are moderately dense, with divided leaves, which are very light yellowish green in color, even the outer ones being very light. This variety blanches readily to an attractive creamy white.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

## Kale

**CULTURE**—Sow in drills 2 feet apart, thin out to 8 inches in the row and cultivate as cabbage. One ounce for 3,000 plants; 3 pounds per acre.

**DWARF CURLED SCOTCH**—55 days—A finely curled, spreading, low growing variety, very hardy and much used for greens. This sort, sometimes called "Norfolk," is grown extensively in the South for shipment, and is largely planted for the home garden. The leaves are long and attractive bright green. This sort is often used for garnishing.

Pkt. 5c; oz. 8c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

## Kohl Rabi

**CULTURE**—The edible part is the turnip-shaped bulb formed above the ground. It is tender and excellent when used before fully grown, combining the flavors of cabbage and turnip. Sow seed in early spring and when well established thin to 6 inches apart in the row. Plantings may be made in July for fall use. A packet will sow about 40 feet of drill; 1 ounce about 300 feet; 2 pounds sufficient for an acre.



WHITE VIENNA KOHL-RABI

**EARLY WHITE VIENNA**—55 days—A turnip-like bulb, formed above ground, combining somewhat the flavor of Cabbage and Turnips. The bulb is large enough to be used in 10 to 12 weeks from time of sowing, and is most tender and deliciously flavored before fully matured.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid.

**LARGE GREEN**—65 days—This sort is also called Large White. It is hardy, quite late, and used for feeding stock. Bulbs large, weighing 8 to 10 pounds when fully grown; whitish green in color, leaves large and very numerous.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

## Lettuce

**CULTURE**—Lettuce can be started in cold frames in February and transplanted to open ground as soon as it can be worked. For late crop, sow the seed in open ground as soon as season permits in rows 15 to 18 inches apart; thin heading varieties 1 foot apart in the rows. Looseleaf sorts will stand closer growing. One ounce will plant 200-ft. row; 2 pounds will plant an acre.

**EARLY PRIZE HEAD**—Forms a mammoth plant, in which even the outer leaves are crisp and tender; color bright green tinted with brownish red. It is of superb flavor and very hardy.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**ICEBERG**—84 days—A large crisp lettuce, always tender. Iceberg stands hot weather remarkably. Give each head 14 inches in row. The color is light green lightly tinged with brown. Try this either for home or market garden. A little larger than Los Angeles and, similar.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.10, postpaid.

**NEW CHICKEN LETTUCE**—Here is a genuine Lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When once cut it starts to grow again. The leaves can be pulled off each stem like a kale. Chicken Lettuce does not make a head, but sends up a stout stalk 3 or 4 feet high, just loaded with leaves.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.10, postpaid.

## Lettuce—Cont.



SATEX SPECIAL NEW YORK

**SATEX SPECIAL NEW YORK**—80 days—The standard head Lettuce grown so largely in California and misnamed by the produce trade as Iceberg. Produces immense heads as solid as a cabbage. Interior is beautifully blanched, creamy-white, crisp, delicious, and very tender. Very strong, robust growing variety. Outer leaves are attractive deep green, broad, and frilled at the edge.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

**HANSON**—80 days—A fine large-heading variety. Leaves curled on the edges, light yellowish-green in color. The head is crisp and brittle and flavor excellent. Stands warm weather extremely well.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00, postpaid.

**BIG BOSTON**—76 days—A popular market variety used largely in the South to grow winter Lettuce for the northern markets. A light-green cabbage variety, slightly tinged with brown in the head. Has a fine golden buttery head.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**COS**—Forms oblong heads of large size. Considered as superior to any other kind. An entire distinct type of lettuce. Sometimes called "Romaine Celery Lettuce."

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

## Mustard

**CULTURE**—Sow frequently in rows 12 to 18 inches apart, covering seed  $\frac{1}{2}$  inch deep. Thin plants to 5 to 6 inches apart in the rows. Give clean cultivation. The plants are in condition for use as soon as the leaves are the size of one's hand. Mustard runs to seed quickly, so that successive plantings are necessary for a continuous supply. One ounce will plant 100 feet-row; 2 to 3 pounds will plant an acre.



LARGE SMOOTH-LEAVED

**LARGE SMOOTH-LEAVED**—30 Days. An excellent sort with very large, light green, plain or comparatively smooth leaves, borne well above the ground. This sort is preferred by many, as it is more easily prepared for the table than the rougher-leaved varieties.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

**CHINESE**—Leaves twice the size of White English; sweet and pungent.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 50c, postpaid.

**SOUTHERN GIANT CURLED**—30 days—Leaves are large, light green with tinge of yellow, much crumpled and frilled at edges. Plant is upright and slightly spreading in growth. This variety is highly esteemed in the South for the market, as well as for the home garden on account of its vigorous growth, hardiness and good quality.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

## Tendergreen

**JAPANESE MUSTARD-SPINACH**—Offered by some dealers in the South as TENDERGREEN. A quick growing vegetable of Oriental origin. In Japan it takes the place of Spinach, as it remains tender even in dry weather. It is virtually an all season plant. Withstands extreme summer heat, also resistant to cold weather. The large, oblong leaves are dark green in color with a very small center rib. The leaves are cooked and prepared for table the same as Spinach and Turnip or Mustard Greens. It compares favorably to these greens in eating qualities. Does not make roots like Turnips; only small thin roots, about 2 or 3 inches in length.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 60c, postpaid.

## Muskmelon

**CULTURE**—Plant in hills 5 to 6 feet apart, dropping 10 seeds to the hill; thin out to 3 plants to the hill; cultivate until the vines cover the ground, and pinch the ends off the early shoots to induce early fruiting.

**ROCKY FORD or NETTED GEM**—92 days—The most largely cultivated variety in use. Grown in great quantities in Colorado. Fruit is slightly oval, finely netted and slightly ribbed. Flesh thick, green, very sweet and of fine quality and high flavor.

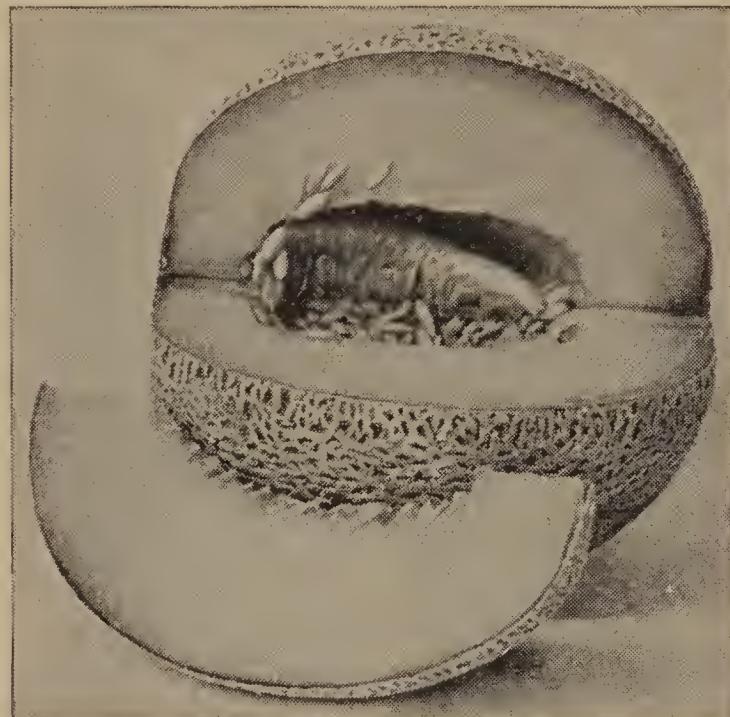
Pkt. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid.

**BURRELL'S SUPERFECTO**—90 days—A Muskmelon that has become very popular in the last few years. Almost round, heavily netted, slightly ribbed; a very good shipper.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid.

**HONEY ROCK**—95 days—The flesh is deep, thick, of orange color, with a sugary and luscious flavor all its own. Rind is so tough, and the flesh so firm that it can be allowed to ripen on the vine and then shipped long distances and yet arrive in perfect condition. The fruits are nearly round, medium in size, with a heavy, coarse netting over a slate-colored skin. The strong vigorous vines do not show any trace of blight. It is one of the most prolific varieties grown.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.



Superfecto

**HALE'S BEST**—85 days—A new variety of Cantaloupe which is grown quite extensively in the Imperial Valley of California. Very early and excellent for shipping. The flesh is salmon and the shape oval, with heavy netting and prominent ribs. Very sweet.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25, postpaid.

Not prepaid, 5 lbs. \$5.00.

**HONEY DEW**—112 days—The delicious honey-like flavor of this new melon has met with instantaneous public favor and created a sensation wherever used. The fruit is of large size, weighing 8 to 10 pounds each. The rind is perfectly smooth and cream colored. The flesh is from  $1\frac{1}{2}$  to 2 inches thick, light green in color, very sweet and juicy.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**CASABA-GOLDEN BEAUTY**—110 days—Golden Beauty is bright yellow, about globular, with wrinkled skin, slightly pointed at stem end. The fruits are about 6 to 8 inches in diameter, the flesh pure white and very thick.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid.

**BANANA CANTALOUPE**—90 days—An extremely long melon, attaining a length of 20 inches and 3 to 5 inches in diameter, weighing about 8 pounds, tapering at both ends, and shaped somewhat like the name indicates. Lemon-colored skin when mature, with very attractive, thick, pink, or salmon-colored flesh of delicious eating quality.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00, postpaid.

## Watermelon

**CULTURE**—The seed should be planted in hills about 8 feet apart and it is well to work into the soil an abundance of well-rotted manure. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. Put 10 to 12 seeds in a hill. When the plants have formed the first pair of rough leaves, they should be thinned so as to leave 2 to 3 of the strongest and best to each hill. Cultivate until vines cover the ground. A packet will plant about 10 hills; an ounce 30 hills; 2 to 3 pounds per acre.

**GYPSY or GEORGIA RATTLESNAKE**—90 days—The melon is long, smooth, distinctly striped with light, mottled and wavy green stripes; flesh bright scarlet, very sugary.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**HALBERT'S HONEY**—85 days—Fully equal to Kleckley's Sweet, which it resembles. It is more even in outline, blunter at end; skin of a richer, darker color

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.



New Wonder

**WONDER MELON**—85 days—Here is a watermelon that every grower in the South will plant sooner or later. In quality of flavor there is nothing that will compare with it. A large and long melon resembling the Tom Watson. The rind is rather thin, but tough, cutting a big red heart of the finest melon meat that you have ever tasted. White seed, with few to the melon.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**KLECKLEY'S SWEET**—80 days—A very desirable variety for the home garden or nearby markets. Fruit medium-sized, oval and skin dark green, flesh bright red and sweet. Skin is brittle. It is the very sweet, honey-like flavor that makes it especially distinct from all other varieties.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**CUT RED TOM WATSON**—90 days—Without doubt the finest grade of Tom Watson seed ever offered the grower. The name represents everything that it stands for. The seed has been selected from only the finest and truest-to-type melons and only then from those that CUT RED from rind to rind. Regardless of what kind of melon you have been planting, it will pay you big dividends to plant some of this splendid seed.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50, postpaid.

**TOM WATSON SPECIAL**—90 days—Long, dark green More tracery on skin than Kleckley Sweet, and longer. Fine variety, cream-brown seed, flesh deep red, finest flavor, no core. Often weighs from 50 to 60 pounds to the melon. One of the most popular shipping melons on the market.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**FLORIDA FAVORITE**—80 days—Fruit long, dark green, mottled and striped with a lighter shade, rind is thin but firm.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**IMPROVED KLONDYKE**—80 days—Among the leading shippers in all the melon growing districts of California this wonderful new melon has rightfully earned the reputation of being the best quality shipping melon in existence, and is being grown with equal success in other States regardless of the climatic conditions. The melons are oblong in shape and weigh from 20 to 35 pounds each. Rind is thin but tough, with attractive deep green. Flesh of the melon is a rich red. Without doubt one of the sweetest melons grown.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.

**DIXIE QUEEN**—A new melon, round in shape, with white seed; often weighs as much as 60 pounds. Skin is striped dark green and greenish ivory; flesh is bright red, solid and of fine flavor. Rind thin, but strong. Uniform in shape, size, color and quality.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25.

**CITRON FOR PRESERVING**—95 days—A round light and dark-striped melon, meat greenish-white, used for preserving only. Seed red and small. Tough rind.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb., 30c; lb., 90c, postpaid.

## Watermelon-Cont.



Florida Giant

**FLORIDA GIANT**—90 days—One of the sweetest, largest and earliest watermelons. The fruit is almost round with rich dark green, medium thick rind and scarlet flesh of luscious sweetness. It has few seeds, is firm and solid, almost all heart. Will stand considerable handling making it an excellent shipper. Melons often weigh from 60 to 80 pounds.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

**STONE MOUNTAIN**—90 days—A new round watermelon showing slight ribs or lobes like a cantaloupe. The color of the smooth skin is light green. The flesh is a uniform beautiful DEEP CRIMSON without any white hearts or stringiness. The average fruit weighs about 45 pounds. Not suited for distance shipping.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

**DALE**—90 days—This splendid melon is oblong in shape. The tough skin is a dark green color irregularly striped with lighter green. Flesh is dark red in color, fine grained, sweet and luscious. White seed. An excellent shipper. You will find our strain of this excellent melon to be the best.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**DALE (Special)**—90 days—This seed is selected from the finest melons in the field. Every melon being of very heavy weight and true to type. We can recommend this melon to any one desiring the best in Dale Watermelon seed.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25, postpaid.

**ALABAMA SWEET**—85 days—A very large, long melon of excellent quality; popular in the South, where it is grown extensively for shipping. The color is rather deep green, with dark, irregular striping. The rind is thin, but very tough. The flesh is bright red, fine grained and sweet.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**IRISH GREY**—90 days—A valuable melon, producing more melons under any condition than any other variety. Also a fine eating melon, and a grand shipper. The red flesh is very sweet and free from stringiness. The rind will not sunburn and will keep in excellent condition long after picking. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

**CLETEX**—85 days—Similar in shape and size to the Tom Watson. Sometimes called Spotted Watson from the fact that it has light green stripes which appear to be spots. Flesh is red and firm, of splendid eating quality. Does not sunburn easily and is a splendid shipper. The seeds are brown to a brown smear.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

## Garlic

**GARLIC**—Large, healthy bulbs for planting.  
Lb. 30c; 3 lbs. 75c, postpaid.

## Onion Sets

**Culture**—Plant 4 inches apart in rows half an inch deep, and 1 foot between the rows, when cultivated by hand. Do not cover the sets entirely. All varieties can be set out in the fall as well as in the spring. One pound plants a 60 foot row.

Red Bottom Sets-----Lb. 30c; bu. \$3.50  
White Bottom Sets -----Lb. 30c; bu. 3.75  
Yellow Bottom Sets-----Lb. 30c; bu. 3.50

Pounds postpaid, bushels f.o.b. San Antonio.



White Velvet

## OKRA

**CULTURE**—Plantings should be delayed until the soil is warm. Plant thinly, in rows 2½ feet apart, and cover seed about 1 inch deep. Thin to about 12 to 15 inches apart. Requires 8 to 10 weeks to mature. One ounce will sow 50 feet of row; 8 pounds, an acre.

**KARGER'S OKRA**—Tender and very prolific. Extra early, at least two weeks earlier than most varieties. Bushes of uniform low or dwarf growth, pods thickly set and heavy bearing. Pods do not harden or become tough very readily.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

**WHITE VELVET**—Round, white, smooth pods of extra large size produced in abundance.

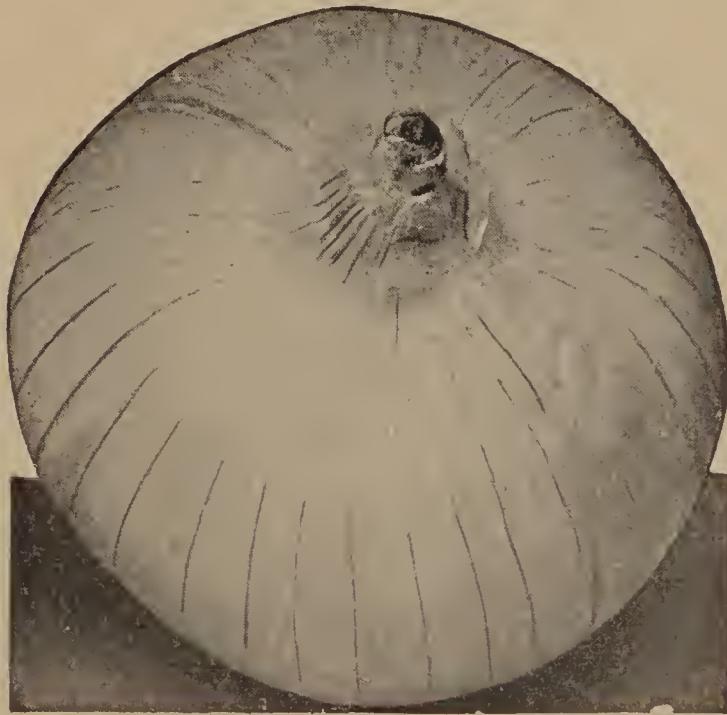
Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

**PERKINS MAMMOTH LONG POD**—This variety is about three feet high, very early and productive. The pods are deep green, very long, slender, slightly corrugated, very tender and of good quality. Desirable market as well as home garden sort.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c, postpaid.

## Onion Seed

**CULTURE**—Plantings may be made from early September until March. Sow in rich soil, in rows 12 to 15 inches apart, and cover seed lightly. When 4 to 5 inches high, plants should be thinned to 3 to 4 inches apart in the row. Seed also can be sown in seed-beds and later transplanted to the field. Shallow cultivation should be practiced every week for 10 days. One ounce to 100-ft. row; 1 to 3 pounds to the acre.



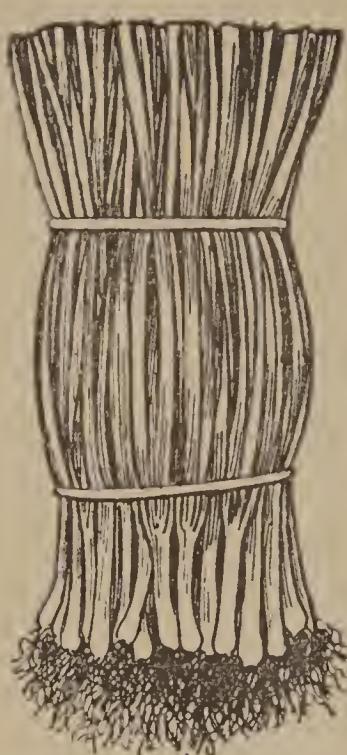
Crystal White Wax

**YELLOW BERMUDA (Straw Color)**—95 days—This is the standard variety and is grown very largely among the large Texas onion growers. It is more hardy, less affected by disease, and more prolific than other onions.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00, postpaid.

**CRYSTAL WHITE WAX**—95 days—This is the waxy white onion seen in our markets in the early spring, and it is one of the most beautiful onions on the market. It is absolutely pure white, of the finest flavor, and will always command a premium on the market.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00, postpaid.



## Onion Plants

CRYSTAL WHITE WAX or  
YELLOW BERMUDA

100	Postpaid	\$0.25
500	Postpaid	.70
1000	Postpaid	1.15

Onion Plants f.o.b. Encinal,  
Texas.

1000	Per M	\$0.75
6000	Per M	.60

Write for larger quantity prices.

## Tomato Plants

Varieties—John Baer, Earliana,  
June Pink, McGee, and Marglobe.

100	Postpaid	\$0.55
500	Postpaid	1.35
1000	Postpaid	2.10

Tomato Plants f.o.b. San Antonio

1000	-----	\$1.50
5000	Per M	1.40

## Cabbage Plants

Varieties—Early Jersey Wakefield, Stein's Flat Dutch.  
100 Postpaid \$0.55

## Parsnip

CULTURE—Sow the seed in early spring,  $\frac{1}{2}$  inch deep, in rows 12 to 18 inches apart. One ounce of seed for 200 feet of row; 5 pounds per acre.



Hollow Crown

**HOLLOW CROWN**—An excellent variety for the table. The roots are long, with smooth, white skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top of crown of the root.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 65c, postpaid.

## Parsley

CULTURE—Soak seed for several hours previous to sowing, in warm water, which will facilitate germination. Sow in border or frame. Thin rows to 8 inches each way. One ounce of seed to 150 feet of drill.

**PLAIN or SINGLE**—A very hardy variety. The leaves are flat and not curled. The best flavored variety. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**CHAMPION MOSS CURLLED**—A very finely curled green and very ornamental.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

## Garden Peas

CULTURE—Peas should be planted as early as the ground can be worked, in double rows 8 to 10 inches apart; 2 pounds of seed to 100 feet of drill, 60 pounds per acre. You will have best results with early peas on light, warm soil, but the main crop will do better on a fairly heavy soil that will retain moisture.

**WHITE MARROWFAT**—88 days—This is a very heavy yielding late variety. Pods large and well filled. The dry peas are of large size and are excellent for cooking. Pkt. 10c; lb. 30c, postpaid.

**LANDRETH'S EXTRA EARLY**—60 days—A critical gardener wants the best strain as respect earliness, size of pod, flavor, uniformity of ripening, vigor and uniformity in habit of the plant. All these desirable qualities can be found in this pea. This type will produce peas fit for table in 44 to 50 days, according to soil and climatic conditions of the season of their growth. Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.



## Garden Peas—(Cont.)

**BLISS EVERBEARING**—76 days—An old standard, late, main crop variety. Height 3 feet. Vine and foliage sturdy and strong, dark green; pods usually in pairs, containing 4 to 5 light green peas of good quality; matures following Telephone.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

**LAXTONIAN**—62 days—A dwarf pea with large, handsome pods. Slightly earlier than Gradus, maturing about the same time as Thomas Laxton. Vines medium dark green and medium heavy foliage. Pods  $3\frac{1}{2}$  to 4 inches long slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder, altogether a fine pea for private market gardeners. Pkt., 10c; lb., 35c, postpaid. 10 lbs., \$2.00, not postpaid.

**ALASKA**—54 days—Blue pea of excellent quality. Earliest of all the blue sorts. A desirable early pea for market gardeners, growing from 2 to  $2\frac{1}{2}$  feet, and very productive. Pkt., 10c; lb., 30c, postpaid; 10 lbs., \$1.50, not postpaid.

**LITTLE MARVEL**—62 days—The very dark green vines are about 18 inches high

very sturdy and vigorous, and loaded with pods. The pods are very deep green and about 3 inches long, blunt ended and closely packed with peas of medium size. The peas are extremely tender and unsurpassed in sweetness. Pkt. 10c; lb. 30c, postpaid.

**FIRST AND BEST**—60 days—One of the earliest tall varieties, with smooth, round peas, which ripen almost at one time. Grows 2 to  $2\frac{1}{2}$  feet high, seed yellow-white, pods straight, short and well filled. Quality best of the smooth-seeded early varieties.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

**THOMAS LAXTON**—60 days—Excepting color of foliage and pods, in growth this is identical with the Gradus, 2 or 3 days late, but more productive.

Pkt. 10c; lb. 35c, postpaid; 10 lbs. \$2.00, not postpaid.

## Sweet Pepper

CULTURE—Plant seed  $\frac{1}{2}$  inch deep in hot beds in January or in boxes in the house; when danger of frost is over transplant  $1\frac{1}{2}$  feet apart in rows 3 feet wide. One ounce of seed will produce 500 plants.



California Wonder

**CALIFORNIA WONDER**—75 days—A new variety which originated in California. It is one of the largest peppers grown and has remarkably thick and sweet flesh. Of excellent quality, a particularly heavy yielder. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

## Sweet Pepper-Cont.

**WORLDBEATER**—75 days—This is without doubt, the finest introduction in peppers in ages. It is a cross between Chinese Giant and Ruby King, having the shape of the Ruby King, except that it is broader at the pointed end and almost the size of the Chinese Giant. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00, postpaid.

**CHINESE GIANT**—80 days—Plant dwarf, fruit mammoth size, very broad but rather short. It is very late and a rather shy yielder. Popular on account of its large size and mild flavor. Our stock is pure and is as good as can be obtained.

Pkt. 5c; oz. 50c;  $\frac{1}{4}$  lb. \$15.0; lb. \$4.50, postpaid.

**PIMENTO or PERFECTION**—73 days—A medium early, prolific, perfectly mild variety with extremely thick flesh. On account of its thick flesh it will hold up for a long time; an excellent sort for canning whole. Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 85c; lb. \$2.50, postpaid.

**RUBY KING**—69 days—This variety grows to an extraordinary size. When ripe, a handsome, bright ruby color; remarkably mild and pleasant to the taste. For stuffing, no other variety can equal it.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 85c; lb. \$2.50, postpaid.

### HOT OR PUNGENT VARIETIES

**RED CHILI**—82 days—Rather small, bright red variety about 2 inches long and pointed. Pods are used in making Chili Sauce and are very pungent and hot.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**LONG RED CAYENNE**—70 days—A strong, pungent variety, having well pointed fruit, which is bright scarlet when ripe. A very popular variety.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

## Pumpkin

**CULTURE**—May be planted in middle of spring among corn or in hills 8 to 10 feet apart each way. Four seeds in a hill. If planted in hills, they are cultivated in the same manner as melons and cucumbers. For winter use gather before frost and store in a warm, dry place. Use a packet to 5 hills; 1 ounce for 25 hills; 3 to 4 pounds per acre.



Pie or Sugar

**CHEESE**—108 days—A very good table variety. Shape flat, like a cheese box; a good keeper. Often 15 inches across the top.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.

**KENTUCKY FIELD**—120 days—Sometimes called large Cheese. A very large, flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 65c, postpaid.

**JAPANESE PIE**—115 days—Resembles the Cusshaw in shape, but skin is dark green with lighter green stripes. Flesh deep yellow and of good quality. Weight about 12 pounds.

Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00, postpaid.

**GREEN STRIPED CUSHAW**—115 days—Fruits very large, white crooked neck. Color, creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. This sort is very productive and popular in some sections.

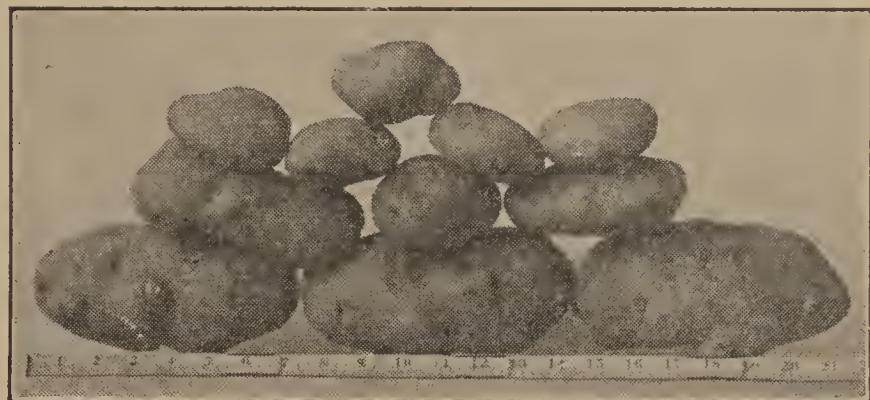
Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00, postpaid.

**PIE PUMPKIN**—118 days—A small round, yellow sort, with fibre pinkish netting. Flesh is thick, sweet and of excellent quality.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

## Certified Seed Potatoes

**CULTURE**—Seed Potatoes should be cut with 1 or 2 good eyes to each piece and planted in rows 24 to 36 inches apart, dropping a cut piece from 8 to 12 inches apart in the rows. Cover pieces about 6 inches and cultivate well after they are up but not too close so as not to disturb the root. Potatoes keep best if they are dug when the vines are about half dead. Plant potatoes in well manured or fertilized soil. Buy Certified Stock as they are free of Scab, Spindletuber and Rhizostonia.



**BLISS TRIUMPH or RED BLISS**—This is the most standard red variety in the Southern States. It is very early and matures quickly. The potatoes are round and uniform in shape, eyes slightly depressed and a beautiful bright red in color. It is very hard, and not susceptible to disease.

Peck 90c, not postpaid.

**IRISH COBBLERS**—This variety is one of the most reliable and popular of the early varieties. It is of handsome creamy-white color and of excellent quality, making it most desirable for the best trade. It is a vigorous grower, ripens uniformly and a good keeper; in short, one of the best all-around early potatoes on the market.

Peck, 90c, not postpaid.

## Radish

**CULTURE**—Sow in drills 12 to 18 inches apart and thin out plants to stand about 2 inches apart. Give plenty of water to raise the best radishes. Successive plantings from 1 week to 10 days apart will keep you supplied with good fresh radishes. Sow 1 ounce to 100 feet, 5 to 6 pounds to the acre.

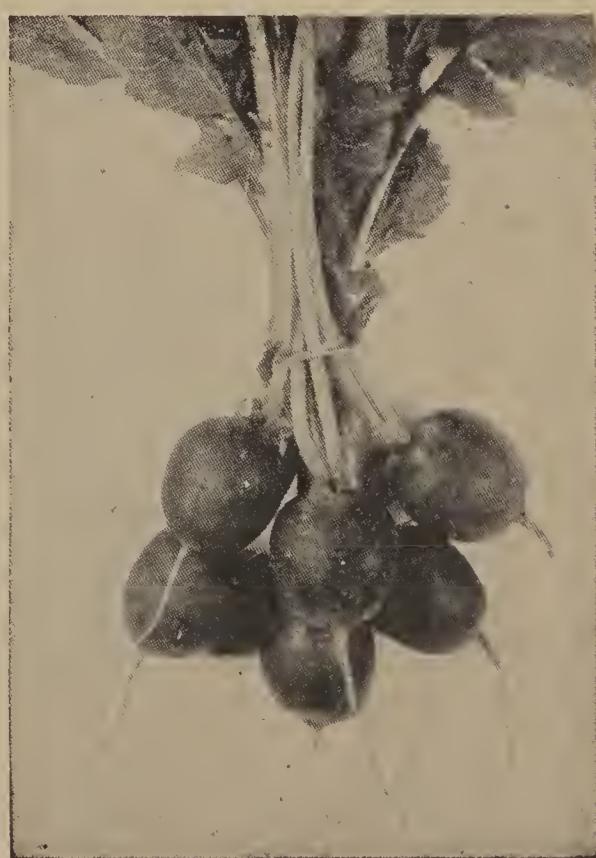
**FRENCH BREAKFAST**—25 days—A quick growing, small olive shaped Radish about  $1\frac{1}{2}$  inches long by five-eights to three fourths of an inch in diameter when fully grown.

The color is beautiful deep rose scarlet except a little clear white about the tip. This is an excellent variety for planting outdoors for the home garden. Its small tops and earliness make it also desirable for growing under glass.

Pkt. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid.

**VICKS SCARLET GLOBE**—23 days—Most popular shipping variety. Roots are slightly olive-shaped and are a rich, bright scarlet in color. The flesh is white, crisp and tender. Tops are of nice size, about 6 inches or more; easy to bunch.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c, postpaid.



Vick's Scarlet Globe

**EARLY SCARLET TURNIP, WHITE TIPPED**—21 days—One of the most popular and attractive short varieties. It is globe-shaped, bright rose carmine with bottom and tip clear white. Stems and leaves are small. Very valuable for forcing, also for the garden and market.

Pkt. 5c; oz. 10c; 2 oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid.

## Radish-Cont.

**CRIMSON GIANT**—28 days—If you desire a radish of more than two bites you will find this your liking. Roots large globular, 1 to 1½ inches in diameter, deep crimson in color. The white flesh holds its firmness well and is of superior quality.  
Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**SCARLET CHINA**—50 days—One of the best of winter varieties. The roots are cylindrical, or largest near the bottom, stump rooted or blunt at both ends. The skin is smooth and of a bright deep rose color.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**LONG WHITE VIENNA**—29 days—A very fine, long, white variety; quick growing, ready for use when very young. The flavor is mild and sweet.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**CHARTIER or SHEPARD RADISH**—35 days—A variety of Long Scarlet; top deep crimson; almost white bottom.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**WONDERFUL HALF-LONG SCARLET**—26 days—So rapid in growth as to develop perfectly in 26 days. Grows about 2½ inches long, contrasting from a broad shoulder to a sharp point; very symmetrical and uniform in shape; color, bright scarlet; altogether a gem.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

**LONG BLACK SPANISH**—55 days—One of the latest and hardiest long garden radishes; especially adapted for winter use. The roots are long, thick, almost black, somewhat wrinkled. The flesh is white, of firm texture, decidedly pungent, but well flavored. The roots when matured are usually 7 to 9 inches long by 2 or 3 inches in diameter at the thickest part.  
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid.

## Spinach

**CULTURE**—The seed should be planted in very rich ground in drills 16 to 20 inches apart, and the plants should be thinned out 6 inches apart in the row when the leaves are 1 inch wide. Spinach seed may also be sown broadcast. One ounce, 100 feet; 8 to 10 pounds per acre in drills; 12 to 15 pounds broadcast.

**BLOOMSDALE**—39 days—As an autumn sort it is superior to all others; but in the spring is inclined to shoot early. The leaves are twisted and bloated, giving them, when ready for shipment, an elasticity adapting them for transportation to long distances and at the same time giving the crop large measuring qualities.  
Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c, postpaid. 10 lbs. \$2.00, not postpaid.

**NEW LONG-STANDING BLOOMSDALE**—42 days—Has all the good points of Bloomsdale, in addition it will withstand the summer heat and does not go to seed.  
Pkt. 5c; ¼ lb. 20c; lb. 40c, postpaid; 10 lbs. \$2.75, not postpaid.



**BROAD-LEAVED FLANDERS**—42 days—One of the most vigorous and strong growing varieties. The leaves are nearly round, uniformly deep green, quite thick and slightly crimped in the center.  
Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c, postpaid; 10 lbs. \$1.75, not postpaid.

**NEW ZEALAND**—70 days—Particularly valuable for culture in hot dry weather. Seeds comparatively large and nut like. Plants very large and spreading, with numerous small triangular, thick, deep green leaves which can be picked continuously during the season.  
Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c, postpaid.

## Squash

**CULTURE**—Squash are very sensitive and planting should be delayed until ground is warm and danger of frost is past. Plant in hills 4 feet apart each way, dropping about 6 seed in each hill and thinning to 2 plants to a hill when they are up. One ounce pants 40 hills; 2 to 3 pounds to the acre.



EARLY WHITE BUSH SCALLOP SQUASH

**EARLY WHITE BUSH SCALLOP**—50 days—A very early variety, with flat, creamy white scalloped squashes 4 to 6 in. in diameter. Vine is bush in habit and rather dwarf. This variety is the common "patty pan" squash.  
Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**GREEN TINT WHITE BUSH or BENNING**—53 days—An excellent variety, popular on account of the greenish white color of the young fruits. Plants are of the bush type. Fruits somewhat warted and dull white at maturity.  
Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**MAMMOTH WHITE BUSH SCALLOP**—60 days—An early maturing, somewhat flattened, scalloped bush squash of largest size, and the handsomest of the summer varieties for home garden and market. The vines are vigorous and productive.  
Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.00, postpaid.

**YELLOW CROOKNECK**—50 days—The well known summer variety. Fruit long, skin very fine and tender when young.  
Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

**COCOZELLE, ITALIAN VEGETABLE MARROW**—65 days—Oblong in shape, shell dark green. Cook and serve the same as other Squash.  
Pkt. 5c; oz. 10c; ¼ lb. 40c; lb. \$1.10, postpaid.

**GIANT YELLOW SUMMER STRAIGHTNECK**—55 days—Plants are of the bush type. Fruits thick-necked, warted, straight, orange-yellow in color. Flesh greenish white and of excellent quality.  
Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid.

## Tomato

**CULTURE**—For early fruit, sow thinly in a hotbed or indoors in shallow boxes. Harden plants by exposing to the air occasionally. In about 6 weeks the plants will be ready to be set out, provided danger of frost is over. The rows should be 4 to 5 feet apart and the plants about 3 feet apart in the row. One ounce will produce 1,500 plants; 4 to 6 ounces required for an acre.

**EARLIANA**—66 days—Very early. Habit of vine dwarf and compact. Fruit borne in clusters of from 10 to 15 in a bunch. A remarkable variety and one which is in good favor with market gardeners.  
Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$2.50, postpaid.

**KARGER'S ROOT ROT RESISTANT**—Many gardeners have been unable to grow tomatoes on account of root-rot in the soil. This new variety has been developed by Mr. Geo. Karger and has proven highly resistant to root-rot. It is a strong vigorous grower with sturdy vines producing an enormous crop of large handsome fruit. The tomatoes are a rich scarlet red color, perfectly smooth, of even color, firm and solid. The skin is smooth and shiny, free from cracks or other irregularities. Has a delicious sub-acid and tasty flavor.  
Pkt., containing about 400 seeds, 25c, postpaid.

## Tomato—Cont.

**CLARK'S SPECIAL EARLY**—81 days—New, excellent variety of tomato, now being used very extensively in the Rio Grande Valley section for shipping purposes. It is an early scarlet fruited variety, uniform in shape and carries well. Inclined to be globe-shaped and bears for a very long period. Truly an excellent variety for market gardeners.

Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00, postpaid.

**RUTGERS**—73 days—It has thick outer and inner walls of solid meat, and therefore very small seed cavities and little seed. It is globe-shaped, scarlet-red color, resembling Marglobe. It ripens first in the center of the fruit, so that when red on the outside the tomatoes are ripe all through. In great demand for all purposes. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**DWARF CHAMPION**—86 days—A dwarf variety sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform and of a purplish-carmine color.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.



John Baer

**GULF STATE MARKET**—77 days—This globe-shaped purplish-pink tomato was developed from Early Detroit and is as early as that variety. It is said to be especially adapted to the Gulf States and California. The fruits are large, showing little depression around the stem, and free from cracks.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**CHALK'S EARLY JEWEL**—73 days—A wonderful new variety in that it is early and bears continuously throughout the season. The fruit is large, smooth, uniform and well ripened clear to the stem, and the flavor and quality are especially fine. Color bright scarlet. Pkt. 5c; oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$2.50, postpaid.

**PRITCHARD**—73 days—A scarlet self-topper, disease resistant variety. Fruits large, smooth, globular, solid with thick walls and cross sections. Color is a brilliant red both exterior and interior. Highly productive, and has a fine flavor.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**RED ROCK**—83 days—A mid-season variety resembling Matchless. Plant medium in growth. Fruits are medium large, thick, flat, deep scarlet, smooth and good quality.

Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 85c; lb. \$2.50, postpaid.

**JUNE PINK**—69 days—A very early and productive pink form of Earliana. The best early pink on the market. Fruit solid and borne in profusion.

Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

**STONE**—86 days—The best main-crop tomato for all purposes, and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet.

Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75, postpaid.

**BREAK O'DAY**—70 days—Developed by F. J. Pritchard of Washington, D. C. A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, meaty, red and globular, very similar to Marglobe but usually larger, used whole for salads or stuffed.

Pkt. 10c; oz., 60c;  $\frac{1}{4}$  lb., \$1.75; lb., \$5.00, postpaid.

**BONNY BEST**—73 days—Fruits of beautiful shape and color; good variety for early market and home use. Scarlet fruit with vigorous vine. Crops ripen uniformly. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.20; lb. \$3.50, postpaid.

## Tomato—Cont.



Clark's Special Early

**MARGLOBE**—80 days—Tested repeatedly and approved by U. S. Dept. of Agriculture. Sure to be planted extensively before long. This is what the Department says about it. "Very productive, second early variety. Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights."

Pkt., 5c; oz., 40c;  $\frac{1}{4}$  lb., \$1.20; lb., \$3.50, postpaid.

**JOHN BAER**—70 days—Early variety, maturing with Bonny Best, producing fruit equally as good as Chalk's Jewel. Color bright scarlet; good size and smooth. The seed we offer was grown from the introducer's stock.

Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00, postpaid.

**McGEE**—70 days—Well known in this State on account of its heavy-bearing qualities. It will yield splendid crops when all other varieties fail. Bright crimson, solid and good flavor.

Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.00, postpaid.

**YELLOW PLUM**—73 days—A small-fruited, bright golden yellow variety, very attractive; for salads or preserves.

Pkt. 5c; oz. 60c;  $\frac{1}{4}$  lb. \$1.75, postpaid.

**YELLOW PEAR**—73 days—Same as Yellow Plum, except that it is the shape of a pear and a trifle smaller.

Pkt. 5c; oz. 60c;  $\frac{1}{4}$  lb. \$1.75, postpaid.



## Rutabaga

**CULTURE**—Rutabagas require a longer growing season than turnips. Seed may be sown at the same time you plant turnips, in rows 2½ to 3 feet apart. Culture is practically the same as for turnips except the plants should be thinned to 8 to 10 inches apart in the row. One ounce will sow 400 feet of row; 1 to 2 pounds per acre.

**AMERICAN PURPLE TOP or LONG ISLAND**—88 days—One of the best and most popular varieties, with yellow flesh. It is yellow below ground, with purple top above, and the leaves are small. A good stock-feeder or table variety.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid.

## Non-Parasitic Diseases

Just as animals get deficiency diseases from lack of vitamins, plants suffer various diseases from lack of proper nutrition. Plants cannot change their location at will and are therefore more at the mercy of locally unfavorable conditions than are animals. Too high or too low temperature, too much or too little light, too much or too little moisture in the soil, excess of lack of some chemicals in the soil, mechanical injury by wind or hail—these and many other mal-adjustments between plant and environment may cause plant disease even when no parasite is present.

## Turnip

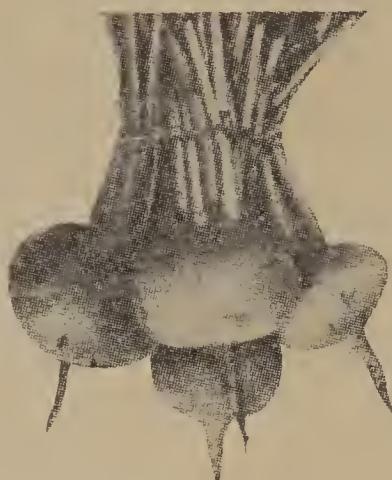
**CULTURE**—Sow in rows 18 inches apart, covering seed  $\frac{1}{2}$  inch deep, pressing the soil down firmly and smoothly. Plants should be thinned to 4 to 6 inches apart. Also sow broadcast. For best quality grow turnips in new ground. One ounce will sow 200 feet of row; 2 pounds an acre.

**PURPLE WHITE-TOP GLOBE**—50 days  
An early medium-sized, globular shaped turnip of good quality for table or stock. Heavy producer, good keeper. Flesh is white, of good eating quality while young. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid.

**WHITE EGG**—55 days—A sort forming a root the shape and size of an egg in an incredibly short period after sowing. Flesh always palatable. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c postpaid.

**POMERANIAN WHITE GLOBE**—75 days—Large variety used largely for stock; is globe-shaped, large leaves, hardy. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c postpaid.

**EXTRA EARLY PURPLE-TOP MILAM**—42 days—Excellent medium-sized turnip, almost as early as White Milam; smooth white surface, purple top, flat shape, white flesh; its growth is very uniform and quality the best. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00, postpaid.



**LOUSE RESISTANT**—A splendid white globe turnip which grows well in hot and dry weather. Lice do not seem to attack this variety as quickly as other turnip greens.

Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

**PURPLE TOP FLAT DUTCH**—46 days—Strap leaved; early flat variety. White with purple top. It matures quickly and has fine-grained flesh of fine flavor. It forms early a fine root, even in shape and of the best quality. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid.

**COWHORN TURNIP**—70 days—This turnip grows very long, often 12 inches or more, and 2 inches in diameter and nearly half above ground. Very popular for stock feeding; is clear white except a little shade of green at top. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c postpaid.

**YELLOW ABERDEEN**—70 days—A large sized, late maturing, long keeping, yellow fleshed turnip. It is hardy, productive, and valuable for stock feeding. The roots are yellow with purple top. The flesh is pale yellow, firm, tender and sweet. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c postpaid.

**EARLY WHITE FLAT DUTCH**—46 days—Strap-leaved; medium sized flat variety, clear white, early and of fine flavor. A fine table variety. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c, postpaid.

## FLOWER SEED PLANTING CHART

(Symbols used: A—annual. B—biennial. P—Perennial)

Name of Flower	Height of Plant	Good Cut Flowers	Best Use	Location Sun—Shady	When To Plant
Alyssum (A)	2-12 in.	Fair	Edging	Sunny	February to May
Amaranthus (A)	24-60 in.	Fair	Bedding	Sunny	February to May
Antirrhinum (A)	1 $\frac{1}{2}$ -5 ft.	Yes	Bedding	Any	Jan. to May — Sept. to Nov.
Asters (A)	12-30 in.	Yes	Bedding	Any	January to April
Balsam (A)	18-30 in.	Fair	Border	Sunny	February to April
Calendula (A)	12-36 in.	Yes	Bedding	Sunny	Jan. to April — Sept. to Nov.
Candytuft (A-P)	12-18 in.	Yes	Bedding	Sunny	Feb. to April — Sept. to Nov.
Carnation (A-P)	18-36 in.	Yes	Bedding	Sunny	Feb. to April — Sept. to Nov.
Celosia (A)	24-36 in.	Fair	Bedding	Sunny	February to May
Centaurea (A)	24-36 in.	Yes	Bedding	Sunny	Feb. to April — Sept. to Nov.
Cornflower (A)	1-3 ft.	Yes	Border	Sunny	Jan. to Feb. — Oct. to Nov.
Cosmos (A)	48-72 in.	Yes	Bedding	Sunny	March to May
Dahlia (P)	36-72 in.	Yes	Bedding	Sunny	February to April
Daisy (A-P)	10-30 in.	Yes	Edging	Any	Feb. to April — Sept. to Nov.
Delphinium (P)	36-60 in.	Yes	Borders	Sunny	Jan. to March — Sept. to Oct.
Dianthus (A-B)	4-15 in.	Yes	Bedding	Sunny	Jan. to March — Sept. to Nov.
Eschscholtzia (A)	10-12 in.	Yes	Bedding	Sunny	February to May
Feverfew (P)	18-24 in.	Yes	Bedding	Sunny	February to May
Four O'Clock (A)	24-30 in.	No	Border	Sunny	March to May
Globe Amaranth (A)	12-18 in.	Yes	Bedding	Sunny	March to May
Gypsophila (A-P)	18-24 in.	Yes	Border	Sunny	March to May
Hollyhock (P)	5-8 ft.	Yes	Border	Moist	Jan. to March — Sept. to Oct.
Lantana (P)	24-36 in.	Yes	Bedding	Sunny	February to April
Larkspur (A)	36-48 in.	Yes	Bedding	Sunny	Jan. to April — Sept. to Nov.
Marigold (A)	8-30 in.	Yes	Bedding	Sunny	March to May
Mignonette (A)	10-12 in.	Yes	Edging	Sunny	March to May
Morning Glory (A)	20-50 ft.	No	For shade	Sunny	March to May
Pansy (P)	4-6 in.	Yes	Edging	Any	Jan. to Feb. — Oct to Nov.
Petunia (A)	18-24 in.	Fair	Bedding	Any	January to May
Phlox (A)	12-18 in.	Yes	Bedding	Sunny	January to May
Poppy (A)	24-60 in.	Yes	Bedding	Sunny	Jan. to March — Sept. to Nov.
Portulaca (A)	4-6 in.	No	Edging	Sunny	March to May
Ricinus (A)	5-10 ft.	No	Massing	Sunny	March to May
Salvia (A)	24-42 in.	Yes	Bedding	Sunny	February to April
Scabiosa (A-P)	24-30 in.	Yes	Bedding	Sunny	March to May
Stocks (P)	24-30 in.	Yes	Bedding	Sunny	Feb. to April — Sept. to Nov.
Sunflower (P)	48-72 in.	Yes	Borders	Sunny	March to May
Sweet Pea (A-P)	4-8 ft.	Yes	Cutting	Sunny	Jan. to March — Oct. to Dec.
Sweet William (P)	12-24 in.	Yes	Bedding	Sunny	Jan. to April — Oct. to Nov.
Verbena (A)	6-10 in.	Yes	Edging	Sunny	January to April
Vinca (P)	15-18 in.	Fair	Bedding	Sunny	March to May
Zinnia (A)	24-36 in.	Yes	Bedding	Sunny	March to August

## DIRECTIONS FOR USING FERTILIZER

**FLOWERS AND VEGETABLES**—Broadcast 4 to 6 lbs. over each 100 square feet and work well into several days before sowing seed or setting out plants. For larger vegetables in rows apply 2 to 3 lbs. for 50 feet of row. Water in. Use half these amounts for additional feedings every 4 to 6 weeks during the growing season. Soak in with heavy sprinklings. Be sure that the plant food is mixed well with the soil and does not come in direct contact with the seed or plants.

**POTTED PLANTS**—One-half teaspoonful mixed in top soil is usually sufficient for plant in 6-inch pot. Vary quantity according to size of pot. **WATER IMMEDIATELY**. Repeat in 30 days.

**TREES AND SHRUBS**—Work several handfuls in soil around each shrub or small tree. For larger shrubs or trees increase application according to size and distribute in soil around trunk as far as branches spread. Water in.

# BEAUTIFY YOUR HOME with FLOWERS

There can be no greater joy than the planting of your own garden and certainly nothing more fascinating than actually growing from seed the plants and varieties desired. It is difficult to believe that anyone would contemplate leaving the grounds around their cherished home bare and unattractive, especially when so many beautiful flowers can be grown from seed, with so little effort and at such a small cost. Your home surrounded by a profusion of brilliantly colored and variously shaped flowers growing in neatly designed beds will delight your eye and as "Old Mother Earth" unfolds the beauty in all her majestic splendor you will be inspired with the feeling that the home is more beautiful than ever.

## Alyssum (Sweet)

A hardy annual used for borders and edging, comes early in the spring, covering itself with clusters of pure white flowers.

**LITTLE GEM** (Carpet of Snow)—A beautiful white sort for borders. Plants grow about 6 inches tall, produce an abundance of flowers. Pkt. 10c; 3 pkts. 25c; oz. 40c.

## Antirrhinum or Snapdragon

Snapdragons are very hardy and easy to grow and produce an abundance of flowers from the time they begin blooming in the spring until frost. They are among our most popular flowers and are especially desirable for cutting. We carry only the best Rust-proof Strains.

**MAXIMUM GRANDIFLORUM RUST-PROOF**—This is the newest creation in Giant Snapdragons and is a marked advance over the old type in size and brilliancy of color and is immune to rust.

**LOVELINESS**—Soft rosy pink Pkt. 10c; 1/4 oz. 75c

**APPLE BLOSSOM**—Rosy pink, white tube Pkt. 10c; 1/4 oz. 75c

**PURPLE KING**—Deep glowing purple Pkt. 10c; 1/4 oz. 75c

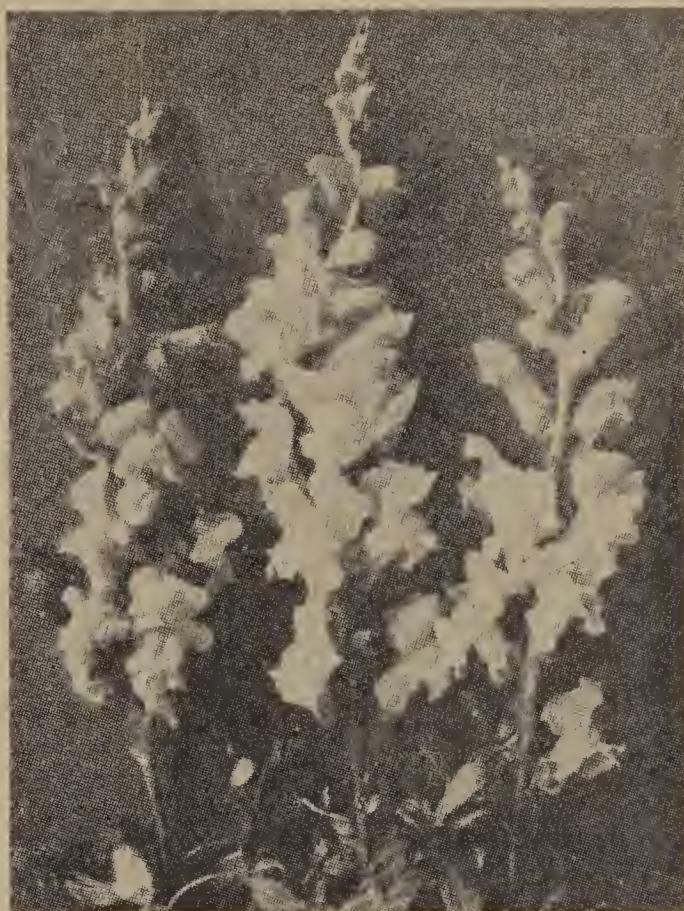
**COPPER KING**—Velvety copper scarlet Pkt. 10c; 1/4 oz. 75c

**ALASKA** (Snowflake)—White Pkt. 10c; 1/4 oz. 75c

**CANARY BIRD**—Golden yellow center Pkt. 10c; 1/4 oz. 75c

**CHRISTMAS CANDLE**—Flame scarlet, cream throat Pkt. 10c; 1/4 oz. 75c

**RUST-PROOF MIXED**—Contains a wonderful range of all the popular colors Pkt. 10c; 1/4 oz. 60c



**Snapdragon—Tall Maximum**



**Aster**



**Balsam**



**Candytuft**

## Asters

For early flowering, seed should be planted in hot beds in December and January, then transplanted as soon as danger of frost is over.

**QUEEN OF THE MARKET**—This is a good type for bedding, and also makes fine cut flowers. Plant grows about 15 inches high and produces beautiful double flowers in many colors, carried on long, slender, graceful stems. Mixed. Pkt. 10c; 3 pkts. for 25c; oz. \$1.00, postpaid.

## Balsam (Lady Slipper)

Grows 18 inches to 2 feet tall, producing an abundance of brilliantly colored flowers. This plant is also known as old-fashioned Touch-Me-Not.

**DOUBLE CAMELLIA MIXED**—Pkt. 10c; 3 for 25c; oz. 35c, postpaid.

**ROSE FLOWERED**—Double flowers, all colors. Pkt. 5c; oz. 50c.

## Texas Bluebonnets

**THE TEXAS STATE FLOWER**—Grows wild all over the prairies of Central and South Texas. There is nothing more beautiful than the fields when the beautiful flowers are in bloom in early spring. Plants grow 12 in. high, covered with beautiful dark blue flowers tinged with white. Pkt. 10c; oz. 30c.

## Calendula (Pot Marigold)

One of the best and showiest free-blooming hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, particularly bright in late Fall, continuing in bloom from early Summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring. Sow in the fall.

**CAMPFIRE** or **SENSATION**—Blooms are flat, and undoubtedly larger than those of any type previously introduced. Color brilliant orange with scarlet sheen with full yellow center. Has extra long stems. Pkt. 10c; oz. 50c.

**BALLS GOLD**—Deep golden yellow. Pkt. 10c; oz. 60c.

**CALENDULA MIXED**—Pkt. 10c; oz. 60c.

## Candytuft

Prolific bloomers, bearing in profusion clusters of flowers in a wide range of colors. Indispensable for cutting, very effective in beds or borders; thin out to 4 inches in a row.

**GIANT WHITE HYACINTH FLOWERED**—This is an extra select strain of Candytuft, with enormous trusses of white blossoms, especially desirable for cutting. Grows about 18 inches high. Pkt. 10c; oz. 50c.

**DWARF UMBELLATTA**—Finest mixed. Pkt. 5c; oz. 20c.

**DWARF UMBELLATTA**—Rose. Pkt. 10c; oz. 25c.

**DWARF UMBELLATTA**—Lavender. Pkt. 10c; oz. 25c.



**Calendula**



**Carnation**

## Carnation

Carnations are general favorites for their delicious fragrance and richness of color. They are indispensable both for greenhouse culture in winter and for the garden in summer; sow in the fall.

**CHABAUD'S GIANT**—Will come into bloom six months from seed and continue to bloom all summer; they form from 10 to 20 stalks bearing huge flowers of fine form. Colors: scarlet, yellow, dark red, white, and deep rose and mixed. Pkt. 10c; 1/4 oz. 75c.

## Castor Bean

**RICINUS**—The large ornamental variety. Pkt. 5c; oz. 15c.



Centaurea Cyanus



Daisy

## Centaurea Cyanus (Corn Flower)

Sometimes called Corn Flower or Bachelor's Button. This is an old-fashioned, hardy annual and still a great favorite for cutting purposes. Are very easily cultivated; the seed should be sown in the spring where they are to remain; thin out to 3 or 4 inches.

**DOUBLE WHITE**—A new variety, absolutely pure white and very durable; splendid as a cut flower. Pkt. 10c; oz. 30c.

**DOUBLE BLUE**—A pleasing shade of blue, much prettier than the single kinds; height 2 to 3 feet. Pkt. 10c; oz. 30c.

**DOUBLE PINK**—Beautiful bright pink shade. Pkt. 10c; oz. 30c.

**DOUBLE RED**—A bright red. Pkt. 10c; oz. 30c.

**DOUBLE MIXED**—All colors. Pkt. 10c; oz. 25c.



Cosmos

## Cockscomb (Celosia Cristata)

**DWARF GIANT EMPRESS**—This beautiful dwarf plant has bronze leaves; forms very large crimson combs; height usually about 1 foot. Pkt. 10c; oz. \$1.50.



Cockscomb

## Dahlias

Most flower lovers plant Dahlia Roots as they do not know that beautiful blooms can be successfully produced the same season from seed. There is real fascination in growing Dahlias from seed, as new varieties are originated in this manner. Try this method and enjoy a most pleasant surprise.

**UNWIN'S DWARF GIANT MIXED**—A small dwarf Dahlia growing to a height of 12 to 15 inches. A free bloomer, which makes it an excellent bedding plant. Easily grown from seed. Pkt. 20c; 3 pkts. 50c; 1/2 oz. \$1.50, postpaid.

## Daisy (Shasta)

A splendid hardy variety with flowers rarely less than 4 inches across, of the purest glistening white with yellow center, broad, over-lapping petals and borne on long stems. A beautiful cut flower, remaining in good condition a week or more.

**CONQUEROR**—Flowers very large, pure white, stems about 2 1/2 to 3 feet long. Pkt. 10c; oz. \$1.25.

## Geranium

This variety is very desirable for pot culture, flower boxes and bedding outdoors. Seed should be sown inside house in pots or boxes in rather light soil and should be kept moist. Seed is slow to germinate.

1461—**MIXED**. Pkt. 10c; 1/4 oz. 50c, postpaid.

## Hollyhock

Splendid background for flower gardens; shows up well along fences; bears open rose-shaped flowers; mixed. Single: Pkt. 5c; oz. 35c. Double: Pkt. 10c; oz. \$1.50.

## Hyacinth Beans

(JACK BEANS)

Rapid climber; blooms and pods very ornamental. Colors: White, purple, or mixed. Pkt. 5c; oz. 15c.

## Lantana

A tender perennial, 2 to 3 feet high, bearing verbena-like clusters of flowers, in orange, white, rose, and other colors. Blooms constantly all summer; sow in early spring. **Hybrida Mixed**—Pkt. 10c; oz. 75c.

## Larkspur

(DELPHINIUM)

Annual varieties, the Larkspur is one of the handsomest and most useful of plants and for large gardens is invaluable. Sow in the fall to early spring.

**Tall Double Stock Flowered**—Colors: Dark blue, bright rose, lustrous carmine, azure blue and white. Pkt. 10c; oz. 45c.

## Gypsophila

(BABY'S BREATH)

Delicate, free-flowering plants covered with star-shaped flowers, valuable for mist-like effect and as trimming in bouquets; also for hanging baskets or edgings.

**Paris Market**—White-----Pkt. 10c; oz. 25c

**Rosea**—Light Pink-----Pkt. 10c; oz. 30c



Gypsophila

## Gourds

Ornamental Gourds are very interesting climbers producing fruits of various shapes and marking. A coat of shellac applied to the matured fruits will add to their beauty, making attractive ornaments for house decorations through the winter. This old-fashioned vine grows 15 to 20 feet high.

**SMALL VARIETIES MIXED**—Pkt. 5c; oz. 25c.

## Globe Amaranth

(GOMPHRENA)

A low-growing hardy annual. Everlasting or Straw Flower, about 8 inches high with globe-shaped flowers, in red, pink, white, and orange. Mixed. Sow in the spring. Pkt. 10c; oz. 25c.



## Marigold

A showy plant with a profusion of flowers in brilliant colors of yellow and orange.

**Tall Double Orange**—A beautiful flower of gigantic size; a very bright orange color, plant usually growing about 2 to 3 feet high. A very popular sort. Pkt. 10c; oz. \$1.50.

**Tall Double Lemon**—A lemon shade that is beautiful. Pkt. 10c; oz. \$1.50.

**Mixed Colors**—Pkt. 10c.

**Crown of Gold (Collarette)**—Flowers of Pompon type resembling a golden chrysanthemum. Height 24 inches. Pkt. 10c; oz. \$1.50.

**Gigantea (Sunset Giants)**—The largest marigold yet developed, many flowers averaging 5 inches in diameter. The definite sweet scent of the flowers adds to its value as a cut flower. The color range includes deep orange, golden orange, deep golden yellow, light yellow and a delightful new shade of primrose. Height of plants, 3 to 4 feet. Pkt. 10c; oz. \$3.00.



Larkspur

We recommend 10-20-10  
Fertilizer for Flowers

## Matricaria (Feverfew)

**MATRICARA CARPENSIS ALBA PLENA** (Double White Feverfew)—Sometimes called button chrysanthemums and is a member of the mum family. Dozens of the small blooms are borne on a single stem of the plant and a few stems with a bit of fern will make a beautiful centerpiece. Grows 18 inches high.  
Pkt. 10c; oz. 75c, postpaid.

## Morning Glory

**HEAVENLY BLUE**—Improved—A beautiful climber bearing very large blue flowers in great profusion almost hiding the foliage.  
Pkt. 10c; oz. 75c.

**JAPANESE MIXED**—A very reliable climber bearing flowers in many variegated colors. Pkt. 5c; oz. 30c.

## Nasturtium

**DWARF**—Used for a border along walls, paths, etc. A constant bloomer and very attractive in color. Pkt. 5c; oz. 10c.

**TALL**—Used for arbor and trellis decoration. Flowers very rich in colors, striped and spotted with different shades. Pkt. 5c; oz. 10c.

### SENSATIONAL NEW NASTURTIUMS

Here's the greatest sensation in flowers for 1937: Giant, double, sweet-scented flowers of gorgeous new colors. Individual blooms are of immense size and produced on long, stiff stems. Be one of the first to grow these wonder flowers. They are excellent for cutting as well as for garden decoration.

**SCARLET GLEAM**—Wonderfully sweet-scented double flowers of dazzling fiery orange-scarlet color. Pkt. 10c; oz. 15c.

**GLEAM HYBRIDS**—New colors, never before dreamed of in double Nasturtiums. Salmon, golden yellow, orange-scarlet, cerise, cream-yellow, orange, and crimson, all delightfully scented. Pkt. 10c; oz. 15c.

**GOLDEN GLEAM**—Acclaimed by garden lovers everywhere. Large, semi-double, golden yellow flowers averaging 3 inches across, deliciously sweet-scented. Pkt. 10c; oz. 15c.



Heavenly Blue

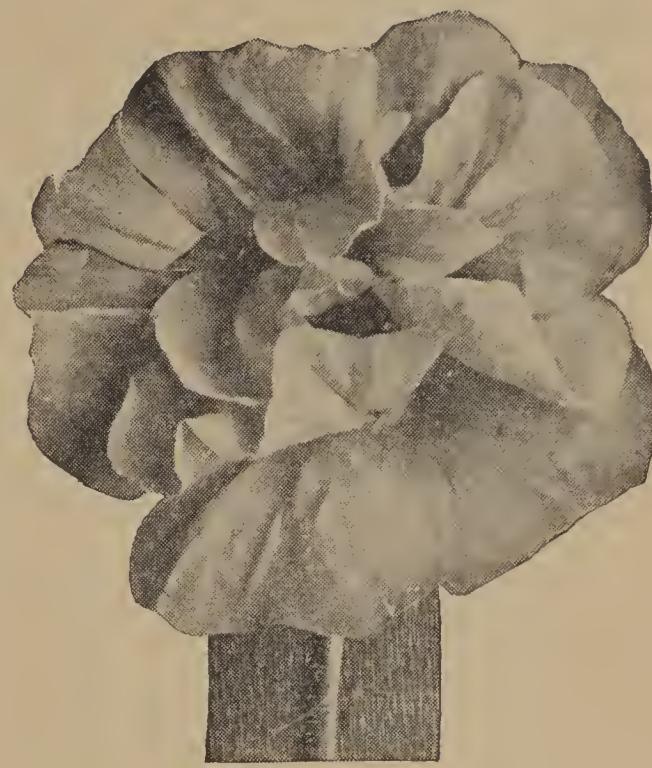


Petunia

## Moon Flower

**NOCTIFLORA**—A very rapid climber bearing large white flowers blooming at night.  
Pkt. 0c; oz. 40c.

**MARKET GARDENERS**  
Write for Our Truck Growers Price List



Nasturtium—Double Golden Gleam

## Pansy

**GIANT TRIMARDEAU**—Flowers are well formed, of enormous size, in a great variety of colors, the very finest strain. Finest mixed. Pkt. 10c; 1/4 oz. oz. 50c.

**NON PLUS ULTRA**—The richest and most varied mixture possible, producing the largest flowers, consisting of the darker shades. Pkt. 10c; 1/4 oz. \$1.25.

## Petunia

Their richness of color, duration of bloom and easy culture will always make them popular.

**DELUXE BEDDING MIXTURE**—Large flowered dark sorts. Pkt. 10c; oz. \$2.00.

**CHOICE MIXED**—Pkt. 10c; oz. 75c.



Phlox

## Phlox

**DRUMMONDI**—**Grandiflora**—This hardy annual is unequalled for the magnificent display of brilliant colors when used in beds. Will thrive in most any soil. Grows from 6 to 12 inches high. Colors: White, crimson, flesh, and mixed. Pkt. 10c; oz. \$1.50.

**STAR**—Choice mixed. Pkt. 10c; oz. \$1.50.

**PHLOX DECUSTA** (Perennial)—Pkt. 10c; oz. \$2.50.

SEE PAGE 25 FOR  
INSECTICIDES  
AND FUNGICIDES

## Pinks (Dianthus)

The family of Pinks is unrivalled for brilliancy and rich variety of color. Plants are bushy, of symmetrical form, blooming profusely until Fall, rendering them very satisfactory for summer varieties.

**CHINESE DOUBLE MIXED**—This is a double annual sort of beautiful colors. Pkt. 5c; oz. 25c.

**HEDDEWIGI DOUBLE MIXED**—This is another type that is beautiful. Pkt. 10c; oz. 75c.

## Poppies

Should be planted in the late Fall or very early in the Spring, as in our section they burn out as Summer comes on.

**CALIFORNIA POPPY**—*Eschscholtzia*—A very beautiful annual with finely cut, feathery foliage, having a velvet, cup-shaped flower. All colors mixed. Pkt. 5c; oz. 25c.

**SHIRLEY MIXED**—This is a beautiful type of satiny flowers with a wide range of colors. Pkt. 5c; oz. 25c.

**CARNATION-FLOWERED**—Large size; flowers very double; of many colors. Pkt. 5c; oz. 20c.



Dianthus or Pinks—Double Mixed

If you have a friend who would be interested in receiving this catalog, we would appreciate your sending us their names so we can mail them a copy.

**SINGLE MIXED**—Many beautiful colors. Pkt. 10c; oz. 75c.  
**DOUBLE MIXED**—Pkt. 10c; oz. \$2.00.

## Queen Anne Lace Flower

QUEEN ANNE LACE FLOWER (White)—A slender erect plant, with feathery fern-like foliage and small flowers clustered at the ends of the stalks. Very showy in mixed bouquets.

Pkt. 10c; oz. 50c, postpaid.



Stocks

**SPLENDENS**—Flowering sage, is a very ornamental plant, flowering in spikes of a rich red color. Pkt. 10c; oz. \$1.50.

**MAMMOTH EARLY BRANCHING NICE**—Plants grow about 1 foot high, making a compact bush covered with splendid spikes of most brilliant colors and varieties. Pkt. 10c; oz. \$1.50.

**TEN WEEKS MIXED**—Pkt. 10c; oz. \$1.25.

**Beautiful** flowering plant; produces a splendid effect in borders and beds with its rich and varied flowers.

**DOUBLE MIXED**—Perennial. Pkt. 5c; oz. 50c.

**SINGLE MIXED**—Pkt. 5c; oz. 30c.

## SWEET PEAS



**STANDARD SUPERB SPENCER**—Sweet Peas will grow and blossom in any good garden soil. For best success sow early, as early as the ground can be worked in the spring. Regardless of the weather sow early, in trenches 4 inches deep; cover about 1 inch with soil, and fill the trench as the plants grow. Set the support early and hoe often.

	Pkt.	Oz.	Lb.
<b>WEMBLEY</b> —Lavender, suffused, plumbago blue	.10	.25	2.25
<b>RENNOWN</b> —Carmine red	.10	.25	2.25
<b>FIERY CROSS</b> —Bright red, orange, cerise	.10	.25	2.25
<b>MISS CALIFORNIA</b> —Salmon, cream pink	.10	.25	2.25
<b>PINKIE</b> —Large rose pink	.10	.25	2.25
<b>KING WHITE</b> —Large pure white	.10	.25	2.25
<b>MRS. TOM JONES</b> —Best azure blue	.10	.25	2.25
<b>STANDARD SPENCER MIXED</b>	.05	.15	1.50

### EARLY FLOWERING SPENCERS—Bloom in 8 Weeks

These magnificent Sweet Peas are ideal for February and March plantings in the lower South. They are quick growers, starting to flower at an early stage, and will furnish an abundance of lovely blooms before hot weather arrives.

<b>HERCULES</b> —Pink	Pkt. 10c; oz. .30
<b>HARMONY</b> —Lavender	Pkt. 10c; oz. .30
<b>GLITTERS</b> —Cerise	Pkt. 10c; oz. .30
<b>SNOWSTORM</b> —White	Pkt. 10c; oz. .30
<b>EARLY SPENCERS MIXED</b>	Pkt. 10c; oz. .25



Verbena

**Golden Queen**—Mammoth yellow  
**Purple Mantle**—Mammoth purple  
**Hybrida Mixed**

## Vinca (Periwinkle)

Highly ornamental, free-flowering, compact evergreen shrubs, with shining green foliage and handsome circular flowers. 18 inches high.

**PURE WHITE**—Beautiful pure white.

Pkt. 10c; oz. \$1.35.

**ROSEA**—Rose, with crimson eye.

Pkt. 10c; oz. \$1.25.

**MIXED**—Pkt. 10c; oz. \$1.25.

## Verbenas

Very popular for massing in beds and flower boxes. Start blooming in early spring until late summer. Sow seed in January in boxes.

**Gigantea Scarlet**—Lucifer Pkt. 10c; oz. 1.25

**Gigantea Pink**—Salmon pink Pkt. 10c; oz. 1.25

**Gigantea White** Pkt. 10c; oz. 1.25

Pkt. 10c; oz. 1.25

Pkt. 10c; oz. 1.25

Pkt. 10c; oz. 1.00

## Dahlia Bulbs

**JEAN KERR (D)**—Fine White Dahlia of medium size, very prolific with great keeping qualities. Each 20c.

**FRANCIS LARROCO (D)**—Finest yellow. Vigorous grower, very strong stems. Each 20c.

**SATAN (C)**—A flaming red cactus with a slight touch of gold at the center. The exquisite color is fascinating. The blooms regularly measure from 10 to 12 inches across and 6 inches in depth. Each 40c.

## Tuberoses

**MEXICAN EVERBLOOMING**—The most beautiful Tuberose that was ever brought to our attention; it begins to produce its fragrant flowers in June and blooms continually until frost. Plant in good soil, and water occasionally during extreme warm weather, and an abundance of lovely flowers will be the reward. In the southern part of the State the bulbs may be left in the ground all winter. Dozen 30c; 100, \$1.75, postpaid.

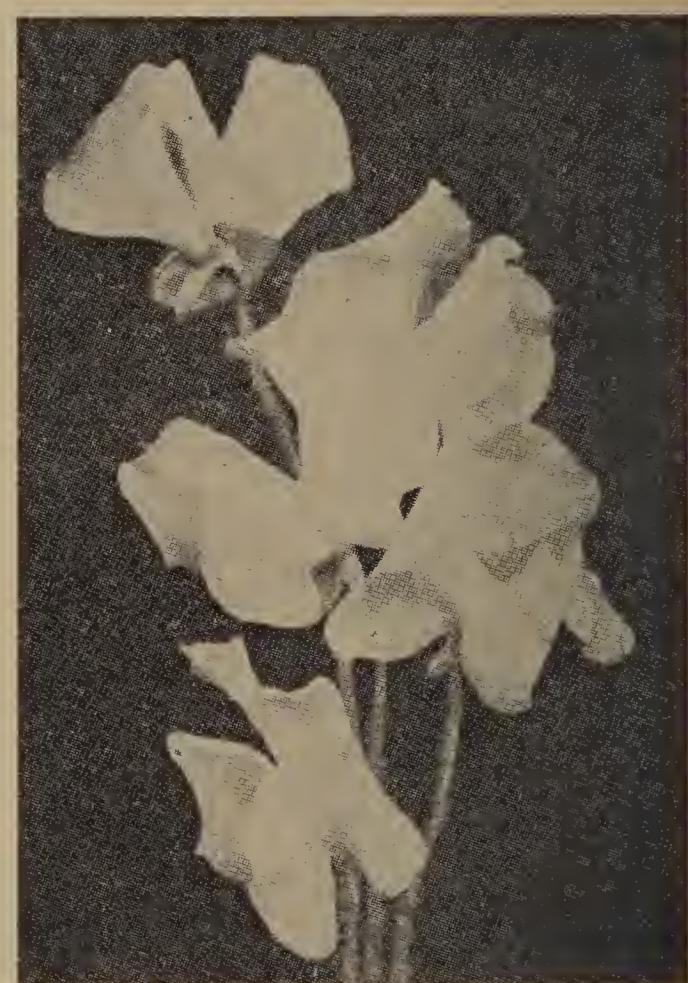
**MRS. I. D. VER WARNER (D)**—Mauve pink, large extra fine flowers on stiff stems. Free and continuous bloomer. Each 20c.

**ELLINOR VANDERVEER (D)**—Full flower of deep rose pink, carried on long stem, blooms freely. Each 20c.

**JANE COWL (D)**—Large glistening bronzy buff flowers with shades of salmon and old gold, held on long rigid stems. Each 20c.

**THOMAS EDISON (D)**—Royal purple, large flowers. Strong vigorous grower. Each 40c.

**JERSEY BEAUTY (D)**—Medium size, pure clear pink, long, stiff stems. Very free flowering. Each 20c.



Sweet Peas

**FREE!**  
**25c of Flower Seeds**  
**WITH EVERY ORDER OF FLOWER**  
**SEEDS AMOUNTING TO**  
**\$1.00**

in other words, order \$1.25 worth of Flower Seeds in Packets or Ounces and send us \$1.00 with your order.

This offer DOES NOT apply to Bulbs or Seeds by the pound.

**ALL FLOWER SEEDS POSTPAID.**

# ZINNIAS

## Satex California Giants

### or Mammoth Special Florists' Strains

The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

**BRIGHTNESS**—Light rose, deep rose center. Pkt. 10c; oz. 90c.

**VIOLET QUEEN**—Deep lavender. Pkt. 10c; oz. 90c.

**ORANGE KING**—Cadmium or orange scarlet. Pkt. 10c; oz. 90c.

**GRENADIER**—Bright dark red. Pkt. 10c; oz. 90c.

**SCARLET QUEEN**—Glowing deep scarlet. Pkt. 10c; oz. 90c.

**DAFODIL, IMPROVED**—Canary yellow. Pkt. 10c; oz. 90c.

**PURITY**—Best white. Pkt. 10c; oz. 90c.

**SPECIAL FLORISTS' MIXTURE**—Pkt. 10c; oz. 90c.

**GOLD MEDAL GIANT DAHLIA FLOW-**

**ERED ZINNIA**—The latest development in Zinnias with flowers of enormous size and resembling the decorative Dahlia very much in shape.

**EXQUISITE**—By far the most pleasing of our collection. Truly Dahlia-flowered as regards form and size. Color, light rose with center a deep rose. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**GOLDEN STATE**—A very rich orange-yellow, turning to an attractive orange when in full bloom. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**CRIMSON MONARCH**—The largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**DREAM**—A fine lavender, turning to purple (mallow purple). A new desirable shade in Zinnias. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**POLAR BEAR**—A very large, pure white, the best white yet seen in Zinnias. True Dahlia form. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

**SPECIAL GOLD MEDAL MIXTURE**—A well-blended mixture containing all the above varieties. Pkt. 10c;  $\frac{1}{4}$  oz. 30c; oz. \$1.00.

## Lilliput, Pompon or Baby Zinnia

The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are very pretty plants; bloom all Summer until late in the Fall.

	Pkt.	$\frac{1}{4}$ oz.	Oz.
<b>PURPLE GEM</b> —Lavender	.10	.25	.75
<b>CANARY YELLOW</b>	.10	.25	.75
<b>CRIMSON GEM</b>	.10	.25	.75
<b>ROSEBUD</b> —Rose pink	.10	.25	.75
<b>VALENCIA</b> —Burnt orange	.10	.25	.75
<b>WHITE GEM</b>	.10	.25	.75
<b>TOM THUMB MIXTURE</b>	.10	.25	.75

## Fantasy Zinnia

**FANTASY FINEST MIXED**—Given the award of merit in 1935 All American Selections. It is very distinctive and has more than fulfilled all early expectations. Shaggy petaled, medium sized, double flowers in many colors, and very different from ordinary Zinnias and will attract quick attention. If you are not acquainted with this new variety you should try it. Pkt. 20c;  $\frac{1}{2}$  oz. \$1.25; oz. \$2.00, postpaid.



Dahlia Flowered  
Zinnia

## Gladiola Bulbs

**CULTURE**—Spade soil not less than 8 to 10 inches deep. Make your rows 18 to 20 inches apart and set bulbs 4 inches in the ground and 8 inches apart. Cover bulbs with 1 inch of soil, then sprinkle lightly with fertilizer or bone meal, then fill in rest of trench with soil and firm down to eliminate air pockets around bulbs. Thoroughly soak plants when water is necessary. Do not sprinkle as it has a tendency to draw roots up to moisture. Keep cultivating. The more you do the better your plants and flowers.

**DR. F. E. BENNET**—One of the best scarlets, scarlet throat stippled with ruby and white. Tall and straight, many flowers open at once. Vigorous grower. Doz. 60c, postpaid.

**GOLDEN DREAM**—Clear deep yellow. Doz. 50c, postpaid.

**W. H. PHIPPS**—Enormous flowers of La France pink, overlaid with salmon rose, lighter towards the center. Doz. 50c, postpaid.

**MRS. VAN KONYNENBURG**—Violet, a near approach to blue. A robust grower, tall and strong with 6 to 7 flowers open at a time. Doz. 60c, postpaid.

**PICARDY**—The color is soft pink shading to deeper pink on the lower petals. Distinct markings in throat. Extremely long stems with many enormous size flowers open at the same time. Doz. 60c, postpaid.



**RED PHIPPS**—A vividly scarlet flower with large throat, opening in a plume of color resembling its famous pink namesake, W. H. Phipps. Doz. \$1.00, postpaid.

**ALBANIA**—A pure white. Doz. 50c, postpaid.

**GIANT NYMPH**—Lovely light rose pink, suffused with creamy yellow in the throat. Giant flowers. Doz. 50c, postpaid.

**CAPT. BOYNTON**—Lovely blue lavender, blotched deeper lavender. Doz. 50c, postpaid.

## Zinnias Are Unrivaled for Color and Size

These beautiful annuals are widely known, but we have added new types that give us the most complete list of Zinnias in the South. Every sort to suit your taste, from the small Lilliputs to the monster bloomers.

Zinnias can be planted all during the spring and summer. Sow seed a quarter inch deep, no more, thinning out the young plants from 12 to 14 inches apart. Dwarf types may be allowed to remain closer. To have a succession of flowers, it is a good idea to make several sowings during the spring and summer.

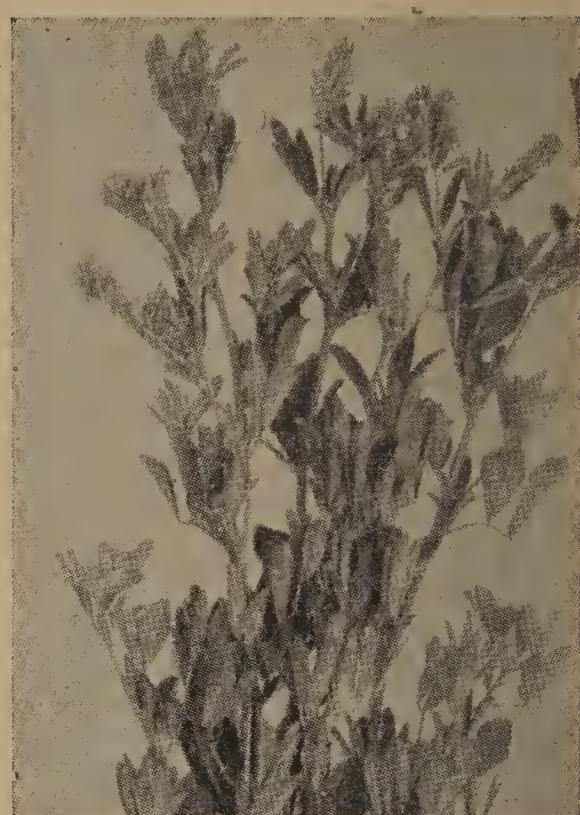
## Field Seeds

The varieties of field seed listed are adapted to the climate conditions of Southwest Texas. They are grown for us by the best growers of field seeds in the state, and you will find them of the best quality and true to name.

**NOTICE**—Owing to the fact that grain markets are constantly fluctuating, it is impossible for us to quote field seed in larger quantities than by the pound. Should you be interested in large quantities, we would be very glad to quote you on any item that you may be interested in. We especially recommend that you try some of the Arizona Grown Hegari and Milo Maize.

### Alfalfa

**HAIRY PERUVIAN**—Is particularly recommended for our own State of Texas. As compared with common alfalfa, Hairy Peruvian is more upright, less branched and has fewer and somewhat coarser stems and smaller crown. It is also characterized by rapid growth, large amount of leaves, quick recovery after cutting and ability to make rapid growth in cool weather after ordinary alfalfa has ceased growing. Broadcast, 20 lbs. to 1 acre. Lb. 35c, not postpaid.

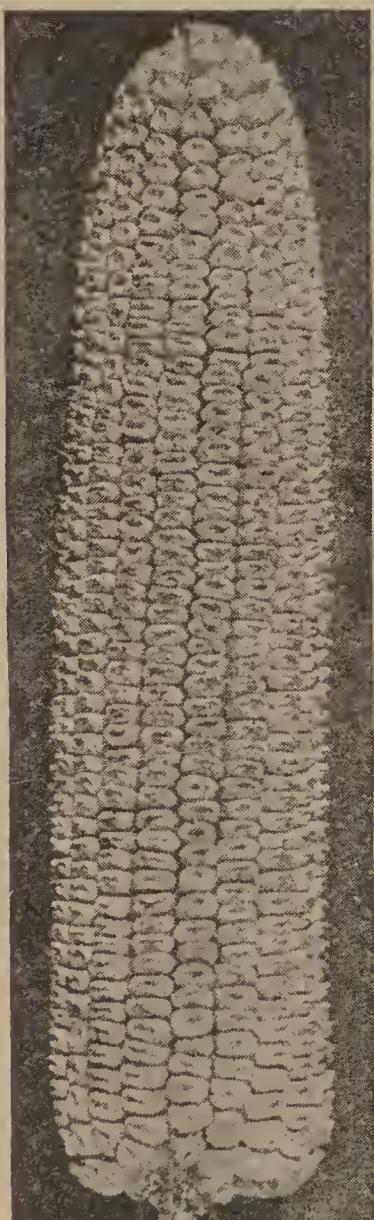


Alfalfa

**WHITE FLOWERING SWEET CLOVER**—Thrives on practically all soils in Texas. Sweet Clover is a splendid soil builder and especially so when the entire crop is turned under. Every planter with cows should have a patch as it is a great milk producer. Sow at the rate of 15 to 20 pounds to the acre. Lb. 25c, not postpaid.

**MELILOTUS INDICA (Annual Yellow Blossom Sweet Clover)**—Sometimes called Sour Clover. Used extensively as a cover crop, especially in orchards. Very popular in South Texas where it grows all winter and produces a vast quantity of green manure to be turned under in the early spring. Can be sown in the fall or spring, 15 to 20 pounds to the acre. Lb. 15c, not postpaid.

**CALIFORNIA HULLED BUR CLOVER**—Very popular in the South for winter pasture. Popular for sowing in Bermuda grass sod for permanent pasture. Disc over your Bermuda grass and sow in the fall, followed with roller. Also fine to sow with other grasses for permanent pasture. Grows well on any type of soil. Sow 40 pounds to the acre in August, September or October. Produces early grazing and lasts well. Lb. 20c, not postpaid.



Texas King

### Seed Corn

**SURE CROPPER CORN**—A truly remarkable drought resisting power. As old as is the history of corn growing in the South and Southwest is the search for a corn able to hold up and make a crop on the scanty moisture which we have in so many fields at some period of almost every season. In Sure Cropper we have found that corn. Lb. 15c, not postpaid.

**GIANT WHITE RED COB**—Makes a very large ear of the finest corn. Grains very large, deep, wide and thick, cob red, very popular wherever tried. We recommend this as being the finest variety of White Red Cob Corn. Has a very large, deep, wide, thick grain. Grains of medium size. Lb. 15c, not postpaid.

**GIANT YELLOW**—This beautiful yellow corn is deeply grained and very uniform in size. A sure cropper and good yielder. Matures in 90 to 100 days. Lb. 15c, not postpaid.

**NATIVE SQUAW CORN**—A drought-resisting variety, plantable in the summer months. It has blue and white grains, therefore not so desirable by the market gardener. However, it makes a sweet and very juicy roasting ear. Lb. 15c, not postpaid.

**TEXAS GROWN JUNE CORN**—The stalks under favorable conditions grow from 7 to 8 feet high, and yield from 30 to 60 bushels to the acre. For best results it should not be planted until June or July, as it stands the hot weather better than any corn. Seed can be produced at any time after May 15th. Lb. 15c, not postpaid.

**CHAMPION WHITE PEARL**—An extra early pure white variety of dent corn. Matures in 100 days from time of planting, is very productive and the ears are exceedingly heavy. The grains are extra deep and white, and the cob is very small. A great favorite. Lb. 15c, not postpaid.

**DROUGHT RESISTER CORN**—It is a white, early maturing, deep rooted, drought resisting corn, with medium size stalk; a corn that is easy to get a stand of, for it is a very hardy variety and a fast grower. Reese Drought Resister is an exceptionally deep-rooted corn with roots almost straight down, with an abundant root system, permitting plowing within 6 inches of stalk without disturbing the root system. It is almost impossible for a man to pull up a stalk of Drought Resister when in roasting ear. Lb. 15c; pk. \$1.50, not postpaid.

**TEXAS KING**—A 90-day white corn. A cross of Sure Cropper and Hickory King. A splendid drought resister and a very heavy yielder. We suggest that you plant some of this in comparison with your present corn. Lb. 10c, not postpaid.

**TEXAS HONEY JUNE**—Requires 87 days. A variety of Sweet Corn, especially adapted to growing in Texas. This corn was perfected by the Texas Experiment Station, at College Station, Texas. Has very heavy shucks, which makes it resistant to ear worm damage. Stalk about 6 feet tall. Ears, medium size, with 14 to 16 rows. We strongly recommend giving this wonderful corn a trial. Pkt. 10c; lb. 30c, not postpaid.

**YELLOW SURE CROPPER**—An excellent early Texas Yellow Corn, that matures in about 90 days, the ears measuring 10 to 12 inches and a big portion of the crop makes 2 ears to the stalk. It is a heavy yielder per acre and will stand a drought better than most varieties. Lb. 20c, not postpaid.

### Popcorn

There is always a good market for Pop Corn, and every corn grower should plant it.

**JAP-O-RICE**—A newer variety. Cob small, grains long and slender. Used by nearly all commercial poppers. A really wonderful variety. Lb. 20c, not postpaid.

**GIANT YELLOW or T.N.T.**—Produces ears in great abundance on stalks nearly 6 feet high. It pops perfectly white. A single kernel will expand to nearly an inch in diameter. Lb. 25c, not postpaid.

### Broom Corn

**OKLAHOMA DWARF**—This type has much less seed on it, and is on the upper one-third of the brush, allowing much cleaner threshing and bales weigh fully one-third more and make the finest smooth parlor brooms, and also contain enough heavier, coarse brush for house brooms. Lb. 20c, not postpaid.

**STANDARD EVERGREEN**—Is very early and when properly planted and cultivated has beautiful green brush and commands the highest price. Harvested by cutting. Lb. 20c, not postpaid.

## Chapman Ranch Cotton Seed

(A Mebane Strain of Cotton)

1—Chapman Ranch Cotton Planting Seed is pure bred and State certified.

2—High gin turnouts, 38% to 43% lint, from clean dry seed cotton. Normal expectancy under average soil and weather conditions 40%.

3—Big bolls, 50 to the pound, making easy and rapid picking at low cost.

4—Good, hard, uniform cotton of desirable staple. A character of cotton that is always in demand and brings a premium.

5—A high degree of storm proofness and drought resistance.

6—Large acreage yield.

7—Grown, ginned and prepared under the personal supervision of a competent cotton breeder. 3-bu. sacks.

1 Bushel	\$2.10
3-bu. Sack	6.00

## Non-Saccharine Sorghums

**DWARF STRAIGHT NECK YELLOW MILO MAIZE**—This variety is the most wonderful Milo Maize and stands the drought well. It is earlier than Kaffir Corn and White Milo Maize, and very prolific. Stock seems to prefer it to corn, and it has a laxative effect on them, keeping them in good condition.

Lb. 10c, not postpaid.

**DOUBLE DWARF YELLOW MILO**—Earlier than the old type Milo. The stalks are short, but large and stand remarkably well. The heads are large and the seed is larger or as large as the old type Milo. It will stand greater drought than most other sorghums and for that reason is adapted to dry farming. Should be extensively grown; in fact, every farmer should plant some of it.

Lb., 10c, not postpaid.

**ARIZONA GROWN DOUBLE DWARF YELLOW MILO**—Without a doubt the finest strain of Double Dwarf Maize that you can buy. You will find this seed as true to type as it is possible to produce same.

Lb., 15c, not postpaid.



Algeria

**HEGARI, the NEW GRAIN SORGHUM**—Some years ago when Kaffir Corn, Milo Maize and Feterita were introduced into the dryland farming crop catalog many people probably imagined that the limit in grain sorghum development had been reached; but that is almost certainly a mistake. We have abundant reason to hope for greater things yet. The new grain Sorghum Hegari, while it is too recent an introduction to justify settled conclusions, certainly promises in some respect, to out-merit all of its predecessors.

Lb. 10c, not postpaid.

**ARIZONA GROWN HEGARI**—The finest of Hegari grown. It will pay you big dividends to plant some of this splendid variety.

Lb. 15c, not postpaid.

**TRUE DARSO**—This wonderful Sorghum is neither saccharine nor non-saccharine. It originated in what is called a "sport" stalk brought in by a farmer in 1912 to the Experiment Station at Stillwater, Oklahoma. After 8 years experimenting Dean Knight stated it was the best silage and feed crop, and the people of Coryell County, Texas, seem to indorse same, as they are rather enthusiastic about it. It will cross with other grain sorghums if planted near them. Six pounds of seeds will plant an acre.

Lb. 10c, not postpaid.

**DWARF BLACK HULL WHITE KAFIR**—It makes a straight upright growth and has a strong stem with enormous wide leaves. The heads form at the top of each stalk. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills.

Lb. 10c, not postpaid.

**FETERITA**—The best drought-resistant non-saccharine Sorghum, and pretty well known in this state. Earlier than Kaffir Corn, and a very heavy yielder. The grain is similar to Milo, but is pure white and also larger and softer. It does not shatter badly and yields as high as 80 bushels to the acre.

Lb. 20c, not postpaid.

## Algeria or Bishop Kafir

A cross between Maize and Kafir. Livestock eat the entire stalk with relish. The stalk is sweet, containing a large amount of sugar, and grows from 4 to 5 feet tall, with leaves about twice the size of Indian Corn and from 15 to 19 leaves to the stalk. Algeria has a corn root, only it goes straight down instead of spreading and will stand dry weather well, although it does exceptionally well in wet climates. Use about 5 pounds of seed per acre, thinning out to a stand similar to corn. It should be allowed to stool before working too much dirt to the roots.

Lb. 15c, not postpaid.

## Saccharine Sorghums

**RED TOP or SUMAC CANE**—This is the most popular variety for our State, and the one most generally planted. Seed is smaller than that of the Orange or Amber. Produces an immense quantity of fodder.

Lb. 10c, not postpaid.

**EARLY ORANGE**—This variety has taller and heavier stalks than any variety of cane. It is not quite as early as the Early Amber, but is a better producer, and is better for syrup-making.

Lb. 10c, not postpaid.

**EARLY AMBER**—This is the earliest sort, and makes fine hay, which is relished by all stock.

Lb. 10c, not postpaid.

**JAPANESE HONEY DRIP**—Known in some sections as Japanese Seeded Ribbon Cane. It makes an unusually large stalk, sometimes as large in diameter as Ribbon Cane and much taller. Yields as much as four to five hundred gallons of the very best syrup to the acre.

Lb. 15c, not postpaid.



Honey Drip

## Soy Beans

**MAMMOTH YELLOW**—Most popular, largest yielder. Grows 3 to 5 feet high. Should not be planted until danger of frost is past. For hay and as a soil builder sow 2½ bu. per acre broadcast; for beans plant 15 to 30 lbs. per acre in drills 3 feet apart.

Lb. 15c, not postpaid.

**LAREDO SOY BEANS**—A new variety of outstanding worth, particularly for making hay. The Laredo makes many slender branches and the plants are leafy, both of which go to make an ideal bean for hay. It is particularly adapted to sections where wilt and nematode are prevalent, as it has proven resistant to these troubles.

Lb. 15c, not postpaid.



Cow Peas

**BRABHAM**—An early wilt-proof, disease-resisting variety. Very similar to Whippoorwills except much smaller seed requiring less for planting a given acreage. The foliage is suitable for hay. **Lb. 15c, not postpaid.**

**CLAY**—The seeds of this variety are medium sized and cream or clay colored; vines grow long and very leafy. One of the best for enriching soil. **Lb. 15c, not postpaid.**



earliest and best varieties on the market. **Lb. 15c, not postpaid.**

**CHINESE RED**—This cow pea seems similar to the Iron variety due to its resistance to wilt and root-knot caused by eel worms. The seeds are small and red and set in the pods very closely. The plant grows erect making it easy to cut. **Lb. 20c, not postpaid.**

**AUSTRIAN WINTER PEAS**—This variety of peas is fine to sow on black land to cover crop to plow under the green manure or for green feed for early spring. You may sow in the fall or early spring. One of its main advantages is that it can stand a great deal of cold weather. **Lb. 15c, not postpaid.**

**CREAM PEAS**—This is the most beautiful table pea we have ever had the pleasure of offering our customers. It has given best satisfaction of any variety we have ever offered for table use, and very deservedly so, as there are none that can surpass it in splendid flavor. In point of yield they double the well known Blackeye, command a higher price on the market, cook quicker, and are in every way superior to it as a table sort. It grows in bunch form. The peas are of a cream color. **Lb. 15c, not postpaid.**

**BROWN CROWDER**—An excellent bearer and vines make a splendid forage. Planted extensively as a dried pea. **Lb. 15c, not postpaid.**

**BLACKEYE**—Grown extensively, as the dry peas find a ready market during the winter. The vines furnish excellent forage and produce in large quantities. **Lb. 15c, not postpaid.**

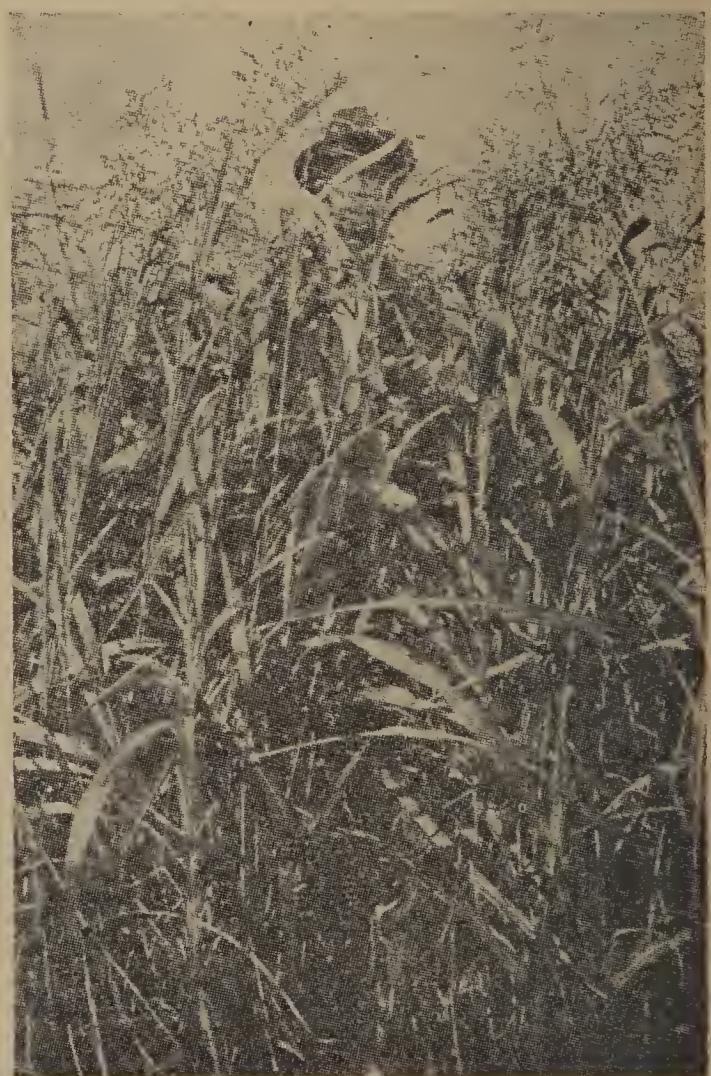
**CANADA FIELD**—Grows 4 to 6 feet high, and can be grazed when 6 to 10 inches high. Pasturizing the peas makes them stool out better. It is a good idea when sowing the peas to mix a bushel of oats, barley, or wheat with 50 pounds of peas per acre. This makes a fine mixture and makes good hay. If sown alone, sow about 75 pounds per acre, broadcast. Crop of this kind is splendid to plow under for green manure. Also used as a table pea and is only excelled by the English Pea. **Lb. 25c.**

## Grass Seed

**SUDAN GRASS**—Great hay and forage crop. This wonderful new grass seems to be taking the country by storm; grown very extensively in Texas the past season and has been tested in a number of other States and the verdict is unanimous, everywhere it has been grown it spells success. It seems to grow successfully on all kinds of land, stands dry weather and does not blight under ample rainfall. Sudan Grass is thought to be the original wild form of the cultivated sorghums. It is an annual, the seed having to be sown every year. It looks very much like Johnson Grass when growing but has a different root growth. Johnson Grass reproduces itself from the underground root stalks as well as from the seed. Sudan Grass will not sprout from the roots after frost has killed the plant. Ranges in height from 5 to 10 feet, stems small and somewhat more leafy than Johnson Grass. Like sorghums it must be planted each spring; it dies when frost comes. **Lb. 15c, not postpaid.**

**BERMUDA GRASS**—Almost everybody living in this section of the country knows this grass. It is planted as a lawn grass, and nothing will stand the sun better, or will make a prettier carpet, when kept short, than this grass. It is also very valuable as a pasture and hay grass, which heretofore had to be propagated by the roots. **Lb. 60c; 10 lbs. \$5.50, not postpaid.**

**HULLED BERMUDA GRASS**—Revolutionizing Bermuda lawn planting. A new process that removes the hull and promotes quicker germination. Results are rapid and sure. Tests show that this type will germinate fully within 8 to 10 days. It is more economical; half the quantity of seed required per 100 square feet of planting. The greatest obstacle to Bermuda lawn making from seed was the slowness of seed germination—the natural seed usually requires 3 weeks. With Hulled Bermuda seed, germination is as quick as Rye Grass. **Prices: Lb. 70c; 10 lbs. \$6.50, not postpaid.**



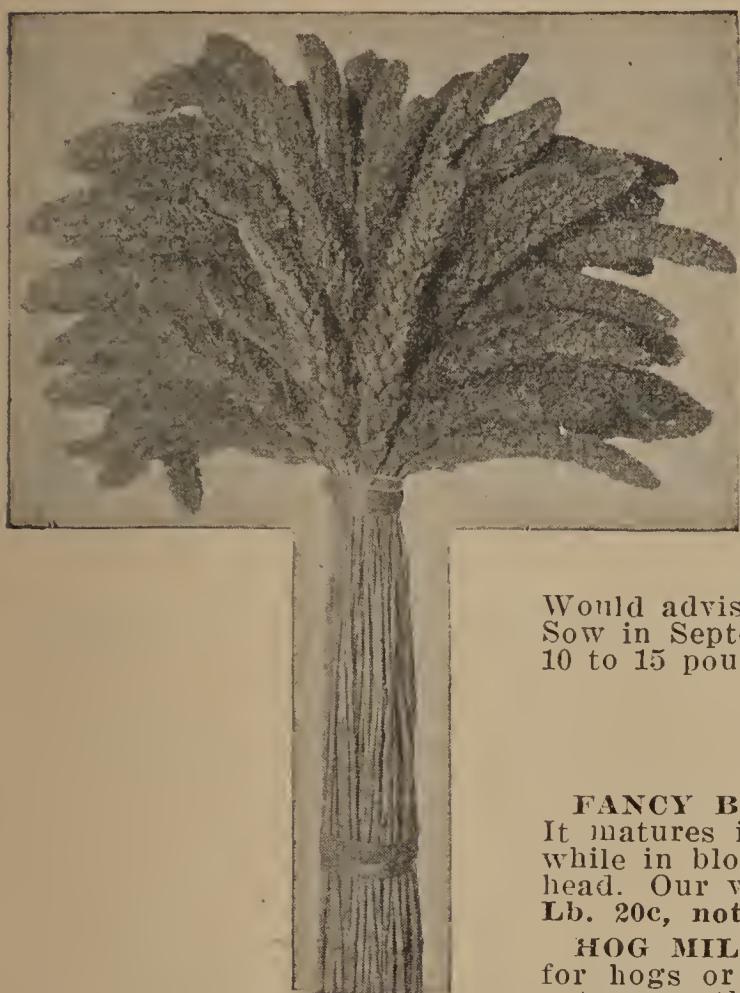
Sudan

## Directions for Using Fertilizer on Lawns

**TO START A NEW LAWN**—Apply broadcast 4 to 6 pounds per 100 square feet several days before sowing seed. Rake well into top soil and water in thoroughly. After growth starts make additional applications as recommended for established lawns.

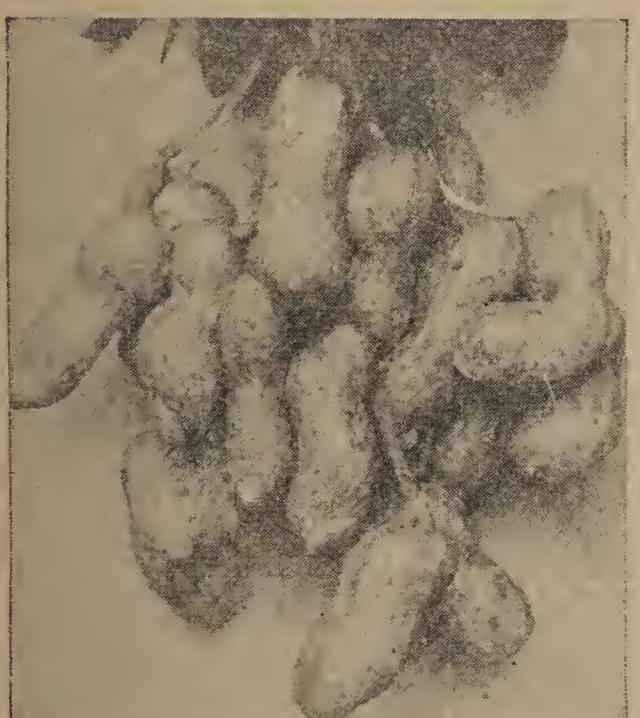
**TO FEED ESTABLISHED LAWNS**—Apply broadcast 3 to 4 pounds per 100 square feet early in the spring before the grass begins to grow. Make additional applications throughout the growing season at the rate of 1 to 2 pounds per 100 square feet every 4 to 6 weeks. These later applications may be mixed with dry sand, rich top soil or humus to form a compost. After applying, soak in thoroughly with heavy sprinkling to carry food down to feeding roots. This is very important.

**KEEP THIS IN MIND**—It matters not how good your land may be, how well you fertilize it, how thoroughly you cultivate—your crop can be no better than the seeds you plant.



Millet

Would advise all of our customers to give this wonderful grass a thorough trial. Sow in September or October; also in February, March and April, at the rate of 10 to 15 pounds per acre. **Lb. 30c; 2 lbs. 55c, not postpaid.**



times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double-jointed hulls of beautifull appearance, are from one-half to one inch in length, and of fine flavor. An excellent variety, and worthy of the highest recommendation.

**Lb. 15c, not postpaid.**

## Peanuts

**SPANISH**—The earliest variety grown; pods are small, but remarkably well-filled and solid, and the yield per acre is very large. Can be cultivated with the plow. Because of its early habit and easy cultivation it is the best variety to grow for fattening hogs. **Lb. 10c, not postpaid.**

**WHITE JUMBO**—This is the standard variety for roasting. The peanuts are three

times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double-jointed hulls of beautifull appearance, are from one-half to one inch in length, and of fine flavor. An excellent variety, and worthy of the highest recommendation.

**Lb. 15c, not postpaid.**

## PROTECT YOUR GARDEN Against Rain, Wind, Bugs, Frost with

### HOTKAPS

HOTKAPS are waxed paper cones, easily set out in quantity over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain perfect mulch. Growth is forced and yield is increased 10 to 25%. Crops mature 2 to 3 weeks earlier and bring premium prices. Prices: 1,000 for \$10.25; 250 package with setter and tamper, \$3.65; 100 package with setter and tamper \$2.65; steel setter \$1.50; garden setter 50c. Postage extra.

Home Garden Set, 25 Hotkaps with Setter-----\$ .50  
Postpaid 65c



## Grass Seed—(Cont.)

**ENGLISH RYE GRASS**—Largely sown by our landscape gardeners for winter lawns on Bermuda soil. The Bermuda blades being easily affected by frost, become red and rusty looking, while English Rye during winter presents a most beautiful appearance, being of a vivid green, and as the Bermuda during April and May makes its appearance it overgrows the English Rye, causing the latter to decay and act as a fertilizer to the existing grass. It should be sown from September to March at the rate of 3 to 4 bushels of seed to the acre. **Lb. 15c; 10 lbs. \$1.10; 100 lbs. \$10.00, not postpaid.**

**FANCY CARPET GRASS**—(*Axonopus Compressus*)—A perennial, spreading by creeping stems which root at every joint, thus forming a close, compact turf. Flourishes on land short in lime, thrives under grazing and trampling. Will stand more close grazing, trampling, and overflow than any pasture grass known. On barren desert or piney wood plains will produce a perpetual grazing ground. It is not a weed or a pest; plowing under will destroy it completely. The Government says in any southern coastal plains or flat woods country this grass is better than Bermuda Grass. Grows 2 to 2½ feet high. Can also be used with good results on lawns, also golf courses.

Would advise all of our customers to give this wonderful grass a thorough trial. Sow in September or October; also in February, March and April, at the rate of 10 to 15 pounds per acre. **Lb. 30c; 2 lbs. 55c, not postpaid.**

## Millet

**FANCY BIG GERMAN**—The most popular of all the Millet for hay or seed. It matures in 6 to 8 weeks after plaiting. If wanted for hay it should be cut while in bloom, as the hay quality decreases as soon as the seed hardens in the head. Our variety of Millet is best and you will find it superior to any variety. **Lb. 20c, not postpaid.**

**HOG MILLET**—The seed is large for a Millet and makes a rich food. Good for hogs or chickens. The seed ripens while the stem is yet green; so that if cut promptly you can get a crop of seed and also one of fodder or ensilage. **Lb. 20c, not postpaid.**

## Peanuts

## Rape Seed

**DWARF ESSEX**—This is considered the most desirable variety of Rape, and should be planted on every farm and in every garden. Furnishes rich, nutritious pasture and green feed 6 to 7 weeks after planting. **Lb. 15c; 10 lbs. \$1.25, not postpaid.**

## Sunflower

**MAMMOTH RUSSIAN**—Produces very large heads, sometimes 15 inches across. The seeds are valued very highly as a feed for poultry and can be planted on a waste piece of ground any time in the early spring and until the middle of July. Should be sown at the rate of about 3 pounds to the acre. **Lb. 15c; 10 lbs. \$1.00, not postpaid.**

## Flex-O-Glass



**FLEX-O-GLASS** costs only one-eighth as much as glass, is cut with ordinary shears, nailed on, easily removed and reinstalled. **FLEX-O-GLASS** pays for itself in a few days in extra chicks saved—but it lasts for years.

It doesn't pay to turn your chicks out in the spring rains, slush and snow to catch cold and die. Science has proved you cannot raise them successfully under glass. Put them in a brooder house with large **FLEX-O-GLASS** windows that will admit plenty of unskinned sunlight. Every chick will stay healthy, free from rickets (weak legs) and other diseases. Their fast, strong growth will be amazing. Use 15 square yards of **FLEX-O-GLASS**—only \$5.00 worth—for 300 chicks. Also keep your hens in this coop next winter and gather eggs while they are high. Raise your early pigs under **FLEX-O-GLASS**. Give them actual sunshine indoors—Natures only health producer. **FLEX-O-GLASS** Hotbeds raise strong plants for transplanting. Frames are light, easily made, easily handled and hold heat better than glass. "**FLEX-O-GLASS**" marked on every yard assures perfect satisfaction, as its exceptional qualities are fully protected by patents.

1 Yard or more-----	per yard \$ .35
5 Yard Roll-----	per roll 1.35
10 Yard Roll-----	per roll 2.70
15 Yard Roll-----	per roll 4.05
25 Yard Roll-----	per roll 6.75

FOR BIGGER AND BETTER CROPS USE  
**ARMOUR'S FERTILIZERS**  
(See page 22)



## CROTOX Bird and Rodent Repellant

Treats All Smooth Surface Seeds

Saves Seed Loss and Replanting

**BONIDE CRO-TOX** protects your seeds during the period when they are most easily damaged by ridding your fields of crows, doves, larks, starlings, blackbirds, pheasants and other seed-pulling birds and rodents, such as squirrels, woodchucks, moles, etc.

No need to replant seed when Bonide Cro-Tox is used. Birds and rodents will not molest seeds treated with Bonide Cro-Tox. Bonide Cro-Tox saves you expense and labor of replanting—assists you in preventing seed rot—helps and hastens germination. A guaranteed protection against seed pests at an insignificant cost of a few cents per acre.

½-Pt. can—treats 1 bushel seed	\$ .60
1-Pt. can—treats 2 bushels seed	1.00
1-Qt. can—treats 4 bushels seed	1.50



## Here Is the Recommended Diet for Lawns and Flowers

● Plant food is a wise investment for every gardener. Properly fed plants grow so much better, are more hardy, and certainly are more beautiful. Because it supplies every one of the eleven different plant food elements plants require from the soil, WE RECOMMEND the use of VIGORO.

You'll be well satisfied with this complete plant food. It was created by scientists especially for feeding plants. Vigoro gives amazing results. It costs only 16c or less to feed properly 100 square feet of lawn or garden area. With Vigoro so economical, why deny your growing things a real square meal?



1-lb. pkg.....	\$ .10	25-lb. bag.....	\$ 1.50
5-lb. pkg.....	.45	50-lb. bag.....	2.50
10-lb. pkg.....	.85	100-lb. bag.....	4.00

## VERT THE COMPLETE PLANT FOOD

Effective because it contains all of the elements of plant food required to produce early, vigorous growth and bring fruit, flowers and foliage to full development. Complete directions in every bag.



100-lb. bag.....	\$ 3.50
50-lb. bag.....	2.00
25-lb. bag.....	1.25

## Armour's Fertilizers

NOTE—Prices on all fertilizers are subject to market changes.  
Write for quantity prices.

**ARMOUR'S SPECIAL GARDEN FERTILIZER**—This is a special prepared fertilizer for the home gardener containing the proper proportion of various ingredients to produce early, vigorous growth and bring vegetables, fruit, flowers and foliage to full development.

Prices: 10-lb. bag 50c; 25-lb. bag \$1.00; 50-lb. bag \$1.50; 100-lb. bag \$2.50.

**ACID PHOSPHATE—16%**—It gives excellent results on nearly all crops but is especially recommended for use on grains and grasses.

Prices: Lb. 4c; 100 lbs. \$1.50.

**BONE MEAL**—Ground very fine. Acts very quickly. There is no better fertilizer for the home garden than this splendid material. Splendid for rose beds, pot plants, etc.

Prices: Lb. 5c; 100 lbs. \$2.50.

**LIME (Hydrated)**—For the sweetening and renovating of land that has become sour. It promotes growth and has a tendency to prevent weeds.

Prices: Lb. 2c; 40 lbs. 45c.

**NITRATE OF SODA**—A fertilizer very quick in action and used for the nitrogen it contains. Will mature a crop several weeks earlier and greatly improve it.

Prices: Lb. 6c; 100 lbs. \$2.75.

**MURIATE OF POTASH**—To be used liberally, especially for root crops.

Prices: Lb. 5c; 100 lbs. \$3.25.

**AMMONIA SULPHATE**—Contains approximately 25% ammonia (nitrogen). One of the highest nitrogen foods.

Prices: Lb. 6c; 100 lbs. \$2.75.

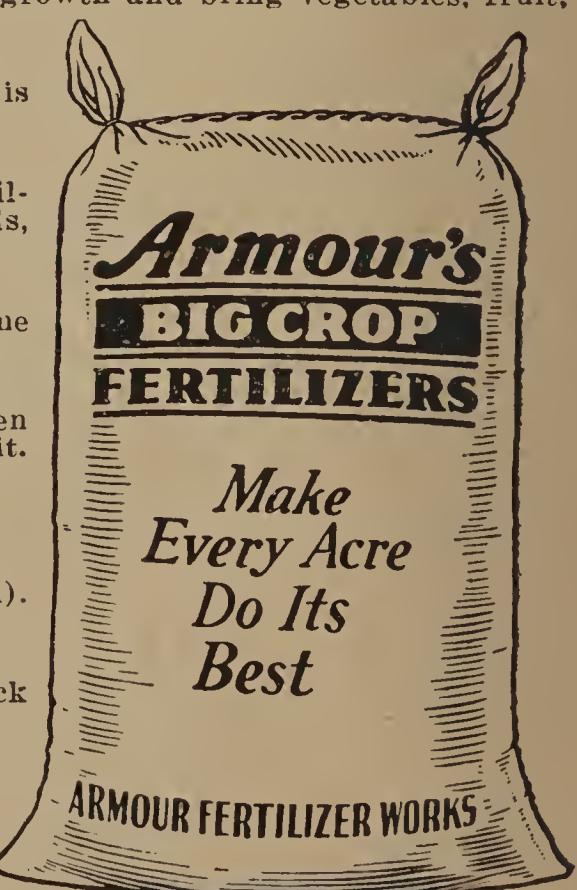
**ARMOUR'S 6-12-6**—A mixture for cotton and corn growers. Also used by truck farmers for potatoes, watermelons, tomatoes, etc.

Prices: Lb. 5c; 100 lbs. \$2.40.

**ARMOUR'S 6-10-7**—A mixture for the grower who desires a lower phosphate content. Prices: Lb. 5c; 100 lbs. \$2.35.

**ARMOUR'S 5-15-5**—A mixture for the grower who desires a higher phosphate content. Prices: Lb. 5c; 100 lbs. \$2.40.

**ARMOUR'S 10-20-10**—This brand has been especially prepared for such crops as require a quick, strong fertilizer. Especially recommended for potatoes, strawberries, watermelons, and all garden truck. Lb. 6c; 100 lbs. \$3.50.



**1938 Price Reductions**

AGAIN MARKS LOWEST PRICE in NITRAGIN HISTORY

**Only 50¢**

Per 1 BU. SIZE ALFALFA and CLOVER

**NITRAGIN**  
The Original Legume Inoculator

EST. in 1898  
39 Years of Service

**BUILD UP YOUR SOIL****Inoculate Your Legumes with NITRAGIN**

Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders.

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play safe!

**INOCULATE WITH NITRAGIN**

Nitragin is an approved, moist soil culture—tested and guaranteed—easy to apply—packed with Billions of fresh bacteria—the cheapest legume crop insurance money can buy. Direction on every can.

With New Low Prices in 1938, you can afford to inoculate all your legumes with Nitragin

**NITRAGIN INOCULATION PRICES**

When Ordering, ALWAYS State Name of Seed

**ALFALFA, all CLOVERS**

Size	Price	Size	Price
1/2 bu. ea.	\$.30	1 bu. ea.	\$.30
1 bu. ea.	.50	2 bu. ea.	.50
2 1/2 bu. ea.	1.00	5 bu. ea.	1.00

**VETCH, AUSTRIAN PEAS, CANADIAN PEAS, BEANS**

1/2 bu. ea.	\$.25	PEANUTS, SOY BEANS, COW PEAS, LIMA BEANS	
1 bu. ea.	.40	1 bu. ea.	\$.30
*1 1/3 bu. (100 lb size) ea.	.60	2 bu. ea.	.50
5 bu. ea.	1.70	5 bu. ea.	1.00
*12 1/2 bu. ea.	4.00	10 bu. ea.	1.60
**"100 lb." size and 12 1/2 bu. size packed only for Vetch and Peas		*25 bu. ea.	3.00
		*25 bu. size packed only for Soy Beans, Cow Peas, Peanuts	

**NITRAGIN GARDEN SIZE** for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines. Retail Price.....10c each.

**NITRAGIN**—Oldest and Most Widely Used Inoculator in America

**TREE TANGLEFOOT**  
STOPS ALL CLIMBING INSECTS

**TREE TANGLEFOOT** is a sticky material for applying in bands around the trunks of trees and vines to combat the climbing and creeping type of destructive insect pests, effectively controlling Canker Worms, Climbing Cut Worms, Gypsy Moth Caterpillars, Brown Tail Moth Caterpillars, Tussock Moth Caterpillars, Bag or Basket Worms and Cut Ants. It remains effective three to four months, outlasting 10 to 20 times any other material.

**RECOMMENDED BY AUTHORITIES**

Forestry experts, government experiment stations and large commercial orchardists the country over are included in our list of users and enthusiastic boosters of **TREE TANGLEFOOT**. Safe, Dependable, Long Lasting.

6-oz. can	\$.35	5-lb. can	\$2.75
1-lb. can	.65	10-lb. can	5.25
25-lb. can	\$13.00		

Don't Try "Watchful Waiting" for Bugs, Worms and Other Vermin.

Swat 'Em or They Will Spoil All of Your Plants

**Prevent Disease Losses by Using Seed Disinfectants****SEMESAN**

For Vegetable and Flower Seeds—Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings and certain cuttings. Full directions in can, for use on vegetable and flower seeds and bulbs. 2 oz. 35c; 1 lb. \$2.25; 5 lbs. \$11.75.

**SEMESAN BEL**

For Seed Potatoes—Effective in controlling such seed-borne disease as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil-borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. 4 oz. 50c; 1 lb. \$1.65; 5 lbs. \$7.00.

**CERESAN**

For Seed Grains—Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills; only 2 oz. needed per bushel of seed wheat, rye, sorghums or millets; 3 oz. for oats and barley. 1 lb. 70c; 5 lbs. \$3.00.

**SEMESAN JR.**

Corn Yields increased 10% by treating seed with New Improved Semesan Jr.—2 1/2 cents an acre for New Improved Semesan Jr. is a trifling investment to increase your corn crop 10%. In 51 tests on Corn Belt farms, this new ethyl mercury phosphate dust produced an average increase of 10% in yield. New Improved Semesan Jr. protects seed field or sweet corn against rotting; gives better stands; reduces losses from root rots. Easily and quickly dusted on seed at the rate of 2 ounces a bushel. There is a measuring spoon in larger sized tins; costs less than 3c an acre; does not reduce rate of drop in planting. 4 oz. 30c; 1 lb. 75c; 5 lbs. \$3.25.

**Cuproicide****SEED PROTECTANT**

A safe and effective fungicide used as a seed treatment for the prevention of "damping off." Many vegetable and flower seeds are difficult to grow without loss of many of the seedlings from the fungous disease known as "damping off." Many times the soil is so heavily infested with fungi that the seeds rot before they have time to sprout and come up. To combat this fungous disease, coat or dust the seed with Cuprocide, which will keep the fungi away from young plants. Lb. 80c; 5 lbs. \$3.50.

**DAWG-GONE**  
KEEPES DOGS AWAY**Acme Dawg-Gone**

The purpose of Dawg-Gone is to keep dogs away from evergreens. Evergreens and especially arbor vitae are very easily burned, leaving them greatly disfigured if not entirely killed. DAWG-GONE is a combination of rare chemicals releasing odor very distasteful to dogs. Packed in tubes; per tube \$ .25

## AUXLIN

### MIRACLE ROOT GROWER FOR CUTTINGS

Many reasons for failure of rooting in the plants have been suggested. The discovery of AUXLIN now indicates that cuttings often fail to grow roots, either because this growth-stimulating chemical is not present or is trapped, and therefore unavailable to the cutting, or is present in less than effective quantities.

AUXLIN promotes vigorous and rapid growth of the plant itself, and if the cuttings are taken from woody plants, they usually produce stronger and more uniform specimens. For example, in the case of evergreens, new growth will follow the first year after the cuttings have rooted. Cuttings with flower buds on them will usually flower the same season.

AUXLIN treated cuttings mature sooner and flower earlier than plants grown from seed. A shrub rooted from cuttings. AUXLIN treated, will in the first year of growth represent a saving of several years growing time over a shrub grown from seed. Lilacs, if AUXLIN treated, can be rooted in July. In fact, most plant species can be rooted at any time during the year, regardless of their normal growing season, if given protection from adverse weather. Under the prevailing method of propagation, cuttings are usually rooted in those periods when the plants ordinarily make new growth.

1/6-oz. bottle, treats about 600 slips-----	\$ .50
1/2-oz. bottle, treats about 1,800 slips-----	1.00
3 1/2 oz. bottle, treats about 7,200 slips-----	6.00
8 -oz. bottle, treats about 28,800 slips-----	12.00



## Satex Roach Powder

### SATEX ROACH POWDER

SATEX ROACH POWDER is a combination of Pyrethrum, a non-poisonous powder that kills through suffocation and contact. Derris Eleptica, a non-poisonous ingredient that is only deadly to cold blooded insects and kills through contact by paralysis, and Blue Sodium Fluoride, a mild poison that acts both as a stomach and contact poison. These three ingredients have been properly blended to make the most effective and lasting roach destroyer on the market today. With the use of some dust gun, SATEX ROACH POWDER should be thoroughly dusted over the shelves of pantries, cupboards, backs of sinks, under tables, back of baseboards and hiding places of roaches. The immediate effect is to cause the insects to come out of their retreats and rush more or less blindly, showing evidence of discomfort to be followed in a few hours by their death. SATEX ROACH POWDER is 100% active and is sold on a money back guarantee. 4-oz. can 20c; 8-oz. can 30c, or 40c postpaid.

## Hudson Spray-Pump Repair Parts

(See page 28 for Pumps)

No.	Price
P 1—Valve Spring	.10
P 2—Valve Disc	.20
P 3—Gasket 2 3/4" O.D., 1-11/16" I.D.	.10
P 7—Plunger Leathers 1 3/4"	.10
P 11—Check Valve Spring	.10
P 13—Gasket 2 3/8" O.D., 1-13/16" I.D.	.10
P 21—Metal Expanders	.03
P 23—Gasket 2 1/8" O.D., 1-11/16" I.D.	.10
P 26—Valve Check	.15
P 27—Check Valve Cage Housing	.20
1N —Fog Nozzle Cap	.30
2N —Fog Nozzle Washer	.03
3N —Fog Nozzle Outside Disc, Regular	.05
3NF—Fog Nozzle Outside Disc, Fine	.05
4N —Fog Nozzle Inside Disc, Regular	.05
4NF—Fog Nozzle Inside Disc, for whitewash	.05
5N —Fog Nozzle Screen	.05
2X —Shut-off Valve Handle	.15
2XD—Shut-off Valve Handle, Drilled	.15
3X —Shut-off Valve Nipple	.10
4X —Shut-off Valve Packing Nut	.20
5X —Inside Gland Washer	.03
6N —Shut-off Valve Spring	.25
7X —Shut-off Valve Pin	.25
7XD—Shut-off Valve Pin, Drilled	.25
62N —Nozzle Washer	.03
3/8" Spray Hose, per foot	.16

## SNAROL

### Sure Death to Garden Pests

Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, Etc., Are Quickly Exterminated

SNAROL is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. Pests eat it at night and are quickly destroyed.

SNAROL will not deteriorate from rain or sprinkling. Thus it lasts longer and is more economical. Requires no preparation. It is non-injurious to vegetation when used according to simple directions.

#### PRICES

1 1/2-lb. packages-----	\$ .35
3 -lb. packages-----	.60
15 -lb. bags-----	2.25
50 -lb. bags-----	6.00



## Wettable Sulphur

To be used in water for the control of such fungicidal disease as are susceptible to sulphur. For stone fruit, use 2 to 4 pounds, to 50 gallons of water. For apple and pear, use 3 to 8 pounds in 50 gallons of water. WETTABLE SULPHUR may also be used as a dust or mixed with Arsenate of Lead. Always add 4 pounds of Hydrated Lime to each pound of Arsenate of Lead when used either as a liquid spray or a dust. Lb. 20c; 10 lbs. \$1.50; 100 lbs. \$12.50.

DRY MILLED SULPHUR—Used as a fungicide, also for blight or mildew on roses.

Lb. 10c; 3 lbs. 25c; 14 lbs. \$1.00; 100 lbs. \$5.00.

COMMERCIAL SULPHUR—Especially valuable as an insecticide and splendid for soil treatment.

Lb. 5c; 10 lbs. 45c; 100 lbs. \$3.25.

DUSTING SULPHUR—The standard dust-control of red spider, mildew, leaf-spot, and rust. The grade we offer is very fine and fluffy, will not clog.

Lb. 5c; 10 lbs. 45c; 25 lbs. 95c; 100 lbs. \$3.25.

## Zinc Sulphate

Used to Control Rosette in Pecan Trees

1 pound-----	\$ .10
10 pounds-----	.90
25 pounds-----	2.00
100 pounds-----	7.50

## SHEPS PLANT SPRAY (NON-POISONOUS)



Get rid of destructive insects. Use SHEPS Plant Spray. Kills and controls both sucking and chewing insects but absolutely harmless to humans, birds, animals and pets. Will not "burn" delicate leaves or flowers. Makes green, healthy, lustrous foliage. No soapsuds solution needed—simply mix with water.

#### PRICES POSTPAID

8-oz. bottle, makes 16 gals. Spray---	\$ .75
Pint bottle, makes 32 gals. Spray---	1.25
Quart can, makes 64 gals. Spray---	2.00

## KILLS

Leaf-Eating and Sucking Insects

There are two distinct classes of insects—the chewing "eating" kind and the sap "sucking" kind. A different insecticide used to be necessary for each class. Now "Green Tox 50" kills both. It kills the sap-sucking kind by contact and the chewing kind by stomach poisoning.

"Green Tox 50" is non-poisonous to humans, animals and birds, but sure death to "chewing" and "sucking" insects. No danger from eating fruit or vegetables sprayed with "Green Tox 50."

1 oz.-----	\$ .35—makes 30 quarts
6 oz.-----	1.00—makes 45 gallons
1 pt.-----	2.60—makes 120 gallons
1 qt.-----	3.50—makes 240 gallons

Mailable



## Buff Color Calgreen

BUFF COLOR CALGREEN is the cheapest form in which the average cotton grower can buy Paris Green and calcium arsenate mixed in the same proportion as in Buff Color Calgreen. This is due to the economies possible through volume factory manufacture.

#### PRICES:

4-lb. pkg.-----	\$ .50
100-lb. drum-----	11.50





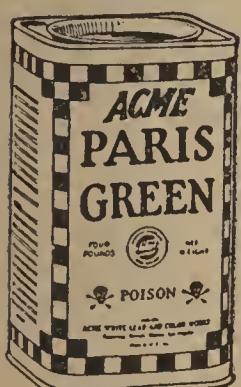
# SPRAYING PAYS

## ACME Insecticides and Fungicides

A RELIABLE BRAND

**Acme Garden Guard**

A garden insecticide and fungicide for use as a dust. No water, no mixing no fuss. Prices: 1-lb. sifter carton 35c; 4 lbs. 75c.

**Acme Two-Way Spray**

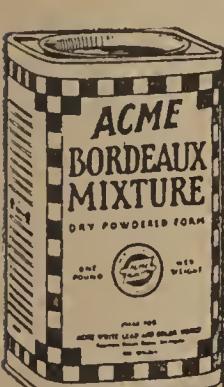
A balanced insecticide and fungicide containing 14% arsenate of lead and 83% Bordeaux Mixture. Two results with one application. Prices:  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 4 lbs. 80c.

**Acme Lime Sulfur**

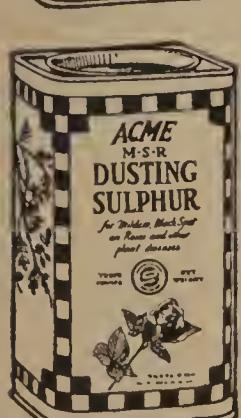
For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mote. 1 lb. 35c; 5 lbs. \$1.45; 25 lbs. \$4.00; 100 lbs. \$12.50.

**Acme London Purple**

A favored insecticide for 50 years. Now stronger and better than ever. Prices:  $\frac{1}{4}$  lb. 15c; 1 lb. 30c; 4 lbs. 50c.

**Acme Arsenate of Lead**

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Prices:  $\frac{1}{2}$  lb. 18c; 1 lb. 30c; 4 lbs. 70c; 100 lbs. \$15.00.

**Acme All Round Spray**

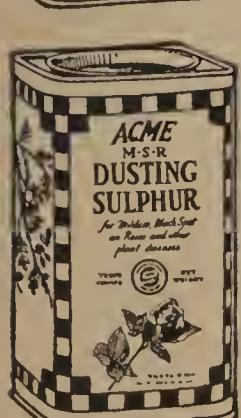
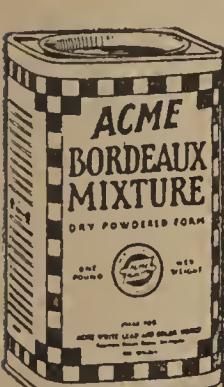
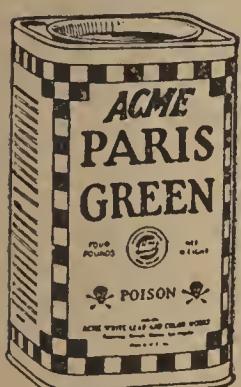
All round spray contains the three leading remedies used by all large growers: Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture.  $\frac{1}{2}$  lb. 35c; 1 lb. 80c.

**Acme Calcium Arsenate**

The cheapest arsenical insecticide on the market but of great economy and efficiency for certain purposes. The accepted dust for boll weevil poisoning on cotton; also recommended to combat chewing insects.

Prices:  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 4 lbs. 50c; 100 lbs. \$7.50.

**ACME DUSTING SULPHUR**—For mildew, black spot on roses and other plant diseases. 3-lb. pkg. 35c.

**Acme Nik-Emo**

Here is an improved nicotine garden spray combining nicotine in its most active form with Emo, a summer oil emulsion spray of the finest quality. For control of aphis, mealy bugs, red spiders, thrip, white flies, rust mites, mildew, certain scale insects and certain other garden pests.

Prices:  $4\frac{1}{2}$  oz. 35c; pint 65c; quart 95c.

**"Black Leaf 40"**

**"BLACK LEAF 40"**—A concentrated solution of nicotine sulphate for combating aphis or plant lice. 1-oz. bottle 35c; 5-oz. bottle \$1.00; 1-lb. can \$2.25; 2-lb. can \$3.25; 5-lb. can \$5.85; 10-lb. can \$10.60.

**TOBACCO DUST**—Effective against cabbage fly and worms. Lb. 8c; 10 lbs. 60c; 100 lbs. \$5.00.

**COPPER SULPHATE (Blue Stone)**—Used for making Bordeaux Mixture. Lb. 15c; 10 lbs. \$1.25; 25 lbs. \$2.60; 100 lbs. \$10.00.

**COPPERAS (Sulphate of Iron)**—A splendid neutralizer of alkali in the soil. Use 200 to 400 pounds per acre; also fine for lawns. Lb. 5c; 10 lbs. 45c; 25 lbs. \$1.00; 100 lbs. \$3.00.

**Aphis Spray**

A combination of Nicotine Sulphate 40% and Fish Oil Soap for use on vegetables, roses, vines, flowers and shrubs to control aphis, thrip, leaf hopper and young scale.

3-oz. Tube-----\$ .35  
12-oz. Tube-----.90

**Destruxol**

This is one of the finest sprays we know for use against such common garden pests as aphids, thrips, lice, red spider, leaf roller hoppers, mealy bugs and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on the under side of foliage. Destruxol may be used at all seasons with entire safety although the warmer the weather, the greater is the fuming action. There is little chance of burning or checking growth and on roses or other hardy subjects, the solution may be used at double strength. Use 1 large tea-spoonful of Destruxol to 1 gallon of water.

1 oz. makes	5 gallons spray-----	\$ .40
2 oz. makes	10 gallons spray-----	.65
$\frac{1}{4}$ pt. makes	25 gallons spray-----	.90
$\frac{1}{2}$ pt. makes	50 gallons spray-----	1.65
1 pt. makes	100 gallons spray-----	2.50
1 qt. makes	200 gallons spray-----	4.25

Must be sent via express. Not mailable

**Cubor Spray****A NON-POISONOUS INSECTICIDE**

Adapted for the control of a wider range of leaf-eating and sap-sucking insects than any other single product. As a single broad use product, it replaces a majority of the minerals formerly needed for specific pests. One pound will make from 25 to 100 gallons of spray according to the strength needed.

1/2-oz. pkg.	\$ .10	1-lb. pkg.	\$ .90
2-oz. pkg.	.35	4-lb. pkg.	2.40

**Cubor Dust "50"**

**CUBOR DUST "50"** containing .50% rotenone, for cabbage and cauliflower worms and other tender insects. 1 lb. 15c; 4 lbs. 50c; 100 lbs. \$9.00.

## Red Seal Rat Death



**RED SEAL RAT DEATH** is not new or an experiment, but has been successfully used in all work done by the International Exterminator Company, who for 21 years have specialized in ridding institutions

and large buildings of these pests. However, this is the first time it has been offered for sale to the home consumer and is filling a long felt want. It not only kills rats and mice but embalms and dries them up, thus leaving no odor.

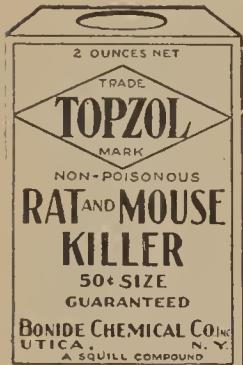
8-oz. can-----\$ .50

## Blue Death

### A GUARANTEED RAT KILLER

**BLUE DEATH**—A new scientific rat exterminator that rats cannot resist. It attracts the wily, shy old fellows from their lairs and gets every last one. **Blue Death** contains pure, sweet, clean natural products that rats really like and eat voraciously. **Blue Death** is more toxic than arsenic, barium, strichnine and red squill. It is a slow acting poison and the time required to kill is from 8 to 14 hours. Its slow killing action allows rats to escape out in the open to die.

1 1/4-oz. tube-----35c; postpaid-----45c



## TOPZOL NON-POISONOUS

**TOPZOL**—A new EXTERMINATOR that is NON-POISONOUS to humans, domestic animals, poultry, dogs or cats; but will kill rats and mice quick. **TOPZOL** drives them outdoors to die. Numerous materials and contrivances have been designed for the destruction of rats and mice, but few of them have proved to be of outstanding usefulness. When using a deadly rat poison the danger of poisoning one's

self as well as livestock, poultry, pet dog or cat, is always present. This danger is done away with when using **TOPZOL** as a rat and mouse killer, as it contains no deadly poison; having the distinct advantage of being relatively HARMLESS TO HUMANS AND DOMESTIC ANIMALS and therefore can be used with assured safety around the home, barn, poultry house, warehouse or any rat or mouse infested building.

**TOPZOL** is guaranteed to kill rats and mice and nothing else, when used according to directions. Purchase price refunded if it fails.

2-oz. can-----25c; postpaid-----35c

## TOPZOL prepared RAT BAITS

READY FOR INSTANT USE

Package of Ten  
Prepared Baits  
Ready To Use.  
No Mixing.  
No Muss.

Pkg.-----15c  
Postpaid-----20c



## ANT-ZIX THE KNOCK OUT BLOW for ANTS!

Dependable  
Quick Action

KILLS CERTAIN ANTS BY THE THOUSAND

**ANT-ZIX** contains a new poison, tasteless and odorless, combined with the most attractive ant lures known. It attracts certain sweet-eating ants and then destroys them like nothing else will.

**ANT-ZIX** is a syrup packed in convenient tubes ready for instant use. No expensive accessories needed. Used as it comes from the tube.

## Antrol

### KILLS ANTS IN THE NEST

**ANTROL** is easy to use, economical, safe around children and pets. Consists of small glass containers from which worker ants carry special **ANTROL** syrup to their nests for food. The whole ant family is quickly killed at the source—the only way to get permanent relief. **ANTROL** containers are heavy glass, with rust-proof aluminum lids. Controls both sweet and grease-eating ants.

Ready Filled Sets (4 filled feeders) 40c; postpaid 50c. Syrup, 4-oz. bottles, 35c; pints, 85c; gallons, \$3.50. Extra glass containers, 10c each.



## Carbon Bisulphide

**CARBON BISULPHIDE (High Life)**—Used very extensively in fighting harvester and cut ants. Most effective if used after a good rain, pour carbon bisulphide into nest opening late in the evening and close up opening. Use from 1 quart to gallon depending upon size of nests. As a weevil control use 2 to 3 ounces to a 50-gallon drum. Qts. 55c; gal. \$1.75, not mailable.

## Cyanogas

A gray powder giving off a poisonous gas when coming in contact with air. Kills ants, rats, moles and other rodents.

1/2 lb.	\$ .45
1 lb.	.75
5 lbs.	3.00



## Paradichlorobenzene

### Peach Borer — Weevil Control

A government-recommended control of the peach borer. Clean gum away from the tree trunk. Encircle the tree, 2 inches away from the trunk, with 1 ounce of P.D.B. and cover with fine dirt. Tramp down firmly. A weevil control (non-explosive) and more economical to use than High Life. Use 2 to 3 ounces in a barrel of grain. Should not be used on beans or peas that you desire for eating. Also recommended to oust moths out of beehives and clothes; acts as a deodorant.

1/4 lb.	\$ .15
1/2 lb.	.25
1 lb.	.45



## ATLACIDE

NON-POISONOUS WEED KILLER

### KILLS JOHNSON GRASS and Undesirable Vegetation

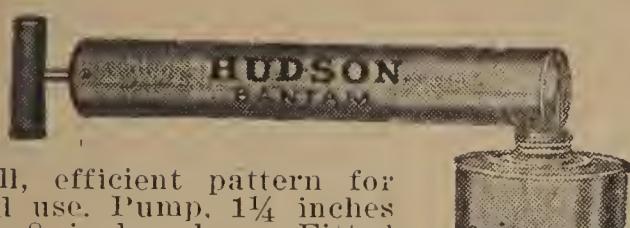
**Atlacide** Weed Killer exterminates all undesirable vegetation—including poison ivy, etc.—as easily as watering a garden, without poison hazard to humans or animals. Simply mix with water and apply on any vegetation—weeds, grass, etc.—with a sprinkling can or sprayer. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters.

1 lb.	\$ .20
10 lbs.	1.50
25 lbs.	3.00
100 lbs.	10.50

## 6% Formaldehyde Dust FOR SOIL TREATMENT

Controls those diseases causing "Damping Off" of flower and vegetable seedlings and cuttings. Use 1 1/2 oz. to square foot or 1 oz. to 30 foot row. Lb. 35c; 15-lb. drum \$4.50.

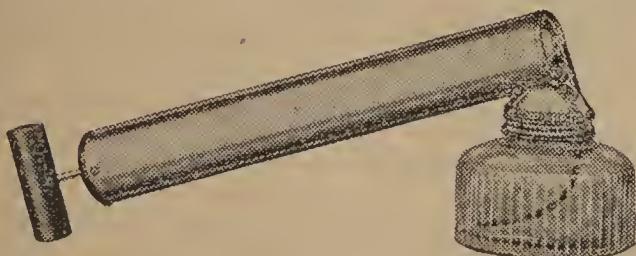
## Hudson Bantam Sprayer



A small, efficient pattern for household use. Pump, 1½ inches diameter, 8 inches long. Fitted with screw cap and syphon tube. Tank is detachable. Can be capped and set away with liquid if desired.

No. F3½ Bantam—5½ ounce-----\$ .20

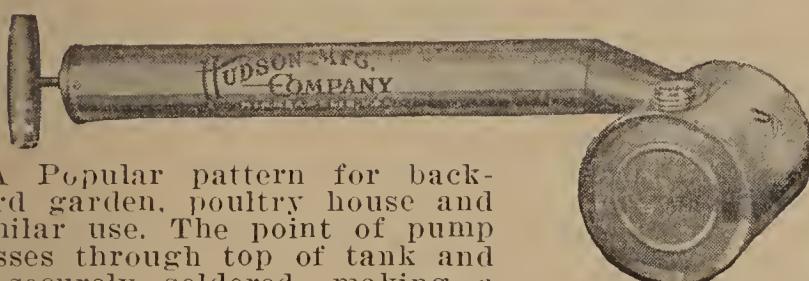
## Glass Jar Sprayer No. G3½



An outstanding pattern for household use. Detachable glass container safely handles solutions which destroy metals. Pump, 1½ inches diameter, 8 inches long, curved syphon tube. Glass container shows nature and amount of contents. Can be capped and set away with liquid if desired.

No. G3½ Glass Jar Sprayer—4½ ounces-----\$ .20

## Hudson Misty Sprayer



A popular pattern for back-yard garden, poultry house and similar use. The point of pump passes through top of tank and is securely soldered, making a very sturdy construction. Pump is heavy tin, 1½ inches diameter, 14 inches long. Tank is heavy tin, lock seamed and thoroughly leak-proof.

No. 452 Misty—1 quart-----\$ .45

## Hudson Handy Sprayer

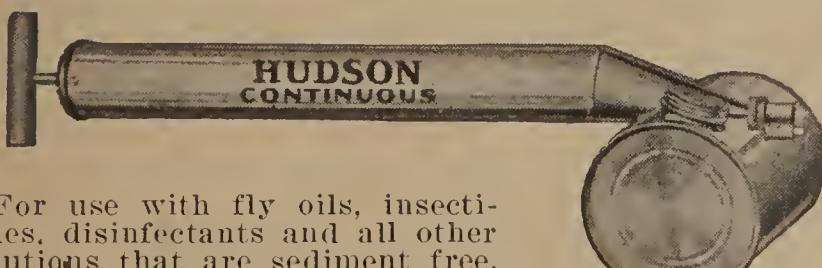


Another popular pattern for the yard, garden, poultry house, etc. Carefully made of good material, thoroughly tested. Pump is heavy tin, 1½ inches diameter, 14 inches long. Tank is heavy tin, lock seamed and thoroughly leak-proof.

No. 440 Handy—1 quart-----\$ .35

No. 222 Vapor—¾ pint, pump 1½ in. diameter 10 inches long-----\$.25

## Hudson Continuous Sprayer



For use with fly oils, insecticides, disinfectants and all other solutions that are sediment free. Pump, 1½ inches diameter, 14 inches long. Fitted with brass syphon tube and nozzle to prevent corrosion. Adjustable for any type of spray from fog to solid stream. Absolutely will not spit. Weight 13½ pounds.

No. 432—Tin container, 1 quart-----\$.75

## Hudson Signal Duster



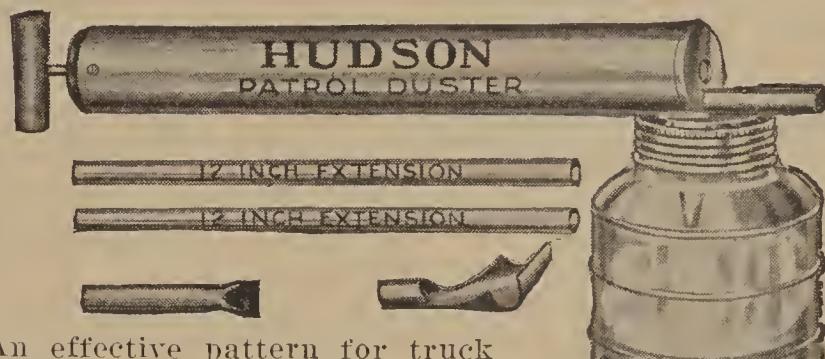
For use with powdered insecticides in and about the home. Heavy tin pump 1½x7 inches. Fitted with Hudson AIR-PAK plunger. Powder reservoir 1½x3 inches. Large, easily removed cap with discharge tube to drive the powder into cracks and crevices. Air valve prevents powder escaping back into air cylinder.

No. 660 Signal Duster-----\$.30

No. 651 Corporal—5 in. stroke, 3 in. powder reservoir, 1½ in. diameter-----\$.20

No. 663 Cadet—8 in. stroke, 5 in. powder reservoir, 1½ in. diameter-----\$.40

## Hudson Patrol Duster

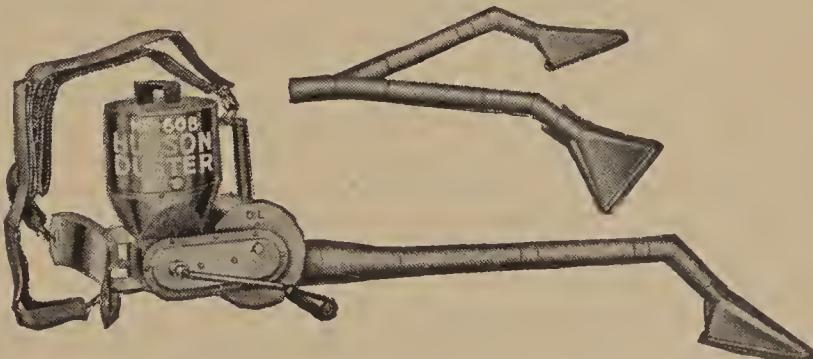


An effective pattern for truck gardens, field crops, etc. The two 12-inch extensions and two nozzles permit the operator to reach all parts of the plant. Positive force feed construction absolutely prevents clogging.

Pump, 1¾x15 inches. Fitted with special cupped plunger leather. Powder reservoir, glass, specially designed. Contents always visible. Wide mouth permits easy filling or cleaning. Any standard Mason jar can be substituted if desired. Discharge equipment, two 12-in. extension pipes and two nozzles.

No. 612 Patrol Duster-----\$1.00

## Roto-Power Crank Duster



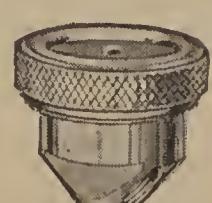
For truck gardens, vineyards, small orchards, etc., as well as clubs, city parks, cemeteries and similar places. Sturdily built. Enclosed machine cut gears, running in oil. Discharge equipment; two nozzles; two elbows, a wye connection and four 15-in. tubes. Feed regulator quickly adjusted for any desired volume of dust. Rotary screw agitator, feeds powder into moving air stream and through fan. No powder is fed when fan is not moving. Equipment can be arranged to dust plants from above, from under side as for aphids, bushes, trees, etc.

No. 608 Crank Duster-----\$12.50

## Hudson Fog Nozzles



No. 166



No. 168

Hudson Fog Nozzles are made entirely of brass, all parts carefully machined. Practical for all general spray work. Equipped with removable brass screen and reversible spray disc. Threaded with ¼-in. standard taper pipe thread.

No. 166 Straight Fog Nozzle, each-----\$.60

No. 168 Angle Fog Nozzle, each-----\$.60

**Hudson Perfection Sprayer**

Thus a tank made like a steam boiler. All riveted seams give the necessary strength for developing high pressure which is absolutely essential for good results. This all-brass pump is placed inside the tank and is easily removed.

For work of any kind requiring high pressure compressed air sprayer the Perfection is supreme. Can be used around the house and yard, in the barnyard and outbuildings, on truck farms, in vineyard, potato, onion and melon fields and all sizes of orchards. Shipping weight 12 pounds.

No. 110G—Galvanized tank, 2½ gallons	\$4.60
No. 110B—Brass tank, 2½ gallons	7.35
No. 110G—Galvanized tank, 4 gallons	6.25
No. 110B—Brass tank, 4 gallons	9.60

**Hudson Du-More Sprayer**

A new continuous, high pressure Kunkinck Sprayer with large air chamber made of brass.

Capacity 4 gallons. Discharge equipment, 3 ft. spray hose, 2 ft. iron extension rod, shut off valve and brass angle fog nozzle. Shipping weight 10 pounds.

No. 117G—Galvanized tank	\$14.00
No. 117B—Copper tanks	21.25

**Hudson Sterling Sprayer**

The Sterling Sprayer has a capacity of about 3½ gallons. It is a very practical pattern for farmer, fruit grower, truck gardener, poultryman, dairyman, etc. It handles ideally whitewash, cold water paints, insecticides, disinfectants, etc. The tank is heavily riveted and soldered and can be had in either galvanized or copper. Has Nu-ez Funnel Top.

Pump is seamless brass tube. Attaches to tank by heavy malleable cap which screws into brass tank collar. Furnished in 24-inch high pressure spray hose, 2-foot brass extension rod and solid brass nozzle with various discs. Packed 1 in a heavy fibre carton. Weight approximately 10 pounds.

No. 115GF Sterling—Galvanized tank	\$5.50
No. 115BF Sterling—Copper tank	8.75

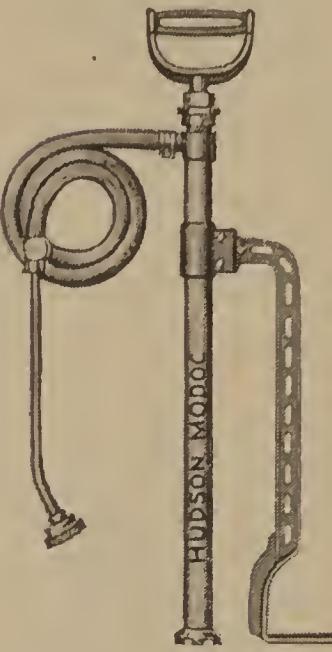
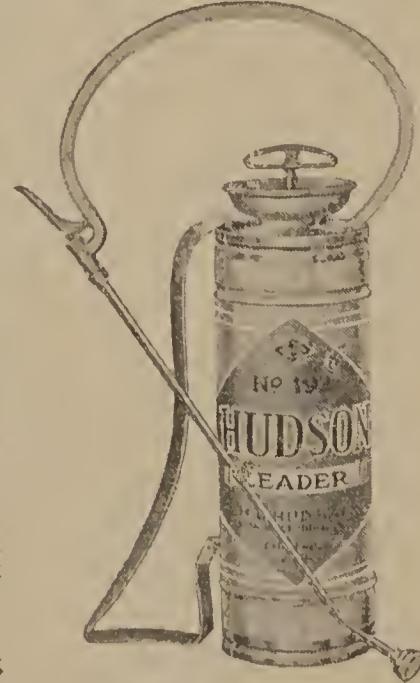
**Hudson Leader Sprayer**

The Leader Compressed Air Sprayer is built of first quality material. Each sprayer is individually tested and inspected. Will do all classes of work for which compressed air sprayers are adapted.

Tank capacity approximately 3½ gallons. Fitted with Nu-ez Funnel Top for convenience in filling, emptying, draining, etc. Side seams are brass riveted. Top and bottom heavily beaded and soldered. Pump 13½x12 inches. Seamless brass tubing, bronze ball valve. Seals into tank by cam lock. Malleable "T" handle. Fitted with 22 inches special spray hose. Two foot brass curved extension rod. Weight 10 pounds.

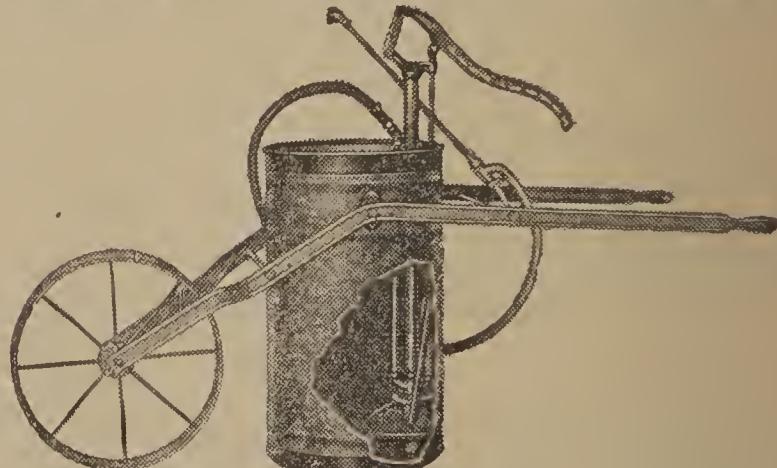
No. 192GF Leader—Galvanized tank	\$3.25
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No. 120GF Thrifty—Galvanized tank, 2 gallons	3.00
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**Hudson Modoc Spray Pump**

The No. 122 Modoc is a sturdy, all-brass, double-acting continuous spray pump. Adapted for spraying fruit trees, vines, gardens, ornamental shrubs and hedges, washing automobiles, wagons, windows or as a fire pump. Handles stock dips, cold water paints, insecticides, disinfectants, etc. Develops 150 pounds nozzle pressure. Discharge equipment consists of 3 feet of 3/4-inch special spray hose, 12 inch curved brass extension rod and disc type all-purpose nozzle.

No. 122 Modoc Spray Pump	\$3.40
No. 112 Marvel Spray Pump	2.65

**Hudson Sunshine Sprayer**

Adapted for small orchards, vineyards, truck gardens, berry bushes, as well as for use by florists, nurserymen and greenhouse. Handles insecticides, disinfectants, whitewash, cold water paints and similar preparations.

Pump is No. 126SA Moro, easily removable. Fitted with non-clogging tubular brass intake strainer which has fifteen times the area of the ordinary strainer. Dasher agitator cleans it thoroughly at each stroke, preventing clogging.

Tank is heavy gauge galvanized steel, reinforced at top and bottom.

Frame is heavy channel steel with channel iron cross braces. Strong and sturdy. Wheel 16 inches high with 2-inch tire.

Fitted with 5 feet of discharge hose, 2 feet iron extension rod, brass angle nozzle and Perfection shut-off valve.

No. 36S Sunshine Sprayer—12½ gallon as shown; weight 41 pounds	\$14.00
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**Spray Pump Repairs**

We maintain a Repair Department for the repairing of Spray Pumps. Stocking a complete line of repair parts for Hudson and E. C. Brown Spray Pumps. Mail or bring in your pump for repairing.

**A Good Spray Pump and the Right Insecticides Properly Used Are Essential in Making Your Garden A Success.**



No. 48A Barrel Pump Complete as shown \$12.00

## Hudson Barrel Spray Pump

Hudson whitewash, cold water, paint, enamel mixtures, agricultural insecticides, etc. Pump cylinder semi-dome brass tubing,  $1\frac{1}{4} \times 7$  inches. Air chamber high carbon steel,  $2 \times 7$  inches, light strong and sturdy. Tubular brass intake strainer provides strainer area fifteen times that of ordinary type. Dasher agitation cleans at each stroke, absolutely preventing clogging. Entire valve assembly, including the intake strainer, accessible from outside of pump without dismantling. Fitted with 6 feet of discharge hose, 1 foot iron extension rod, and brass angle spray nozzle. Weight 33 pounds.

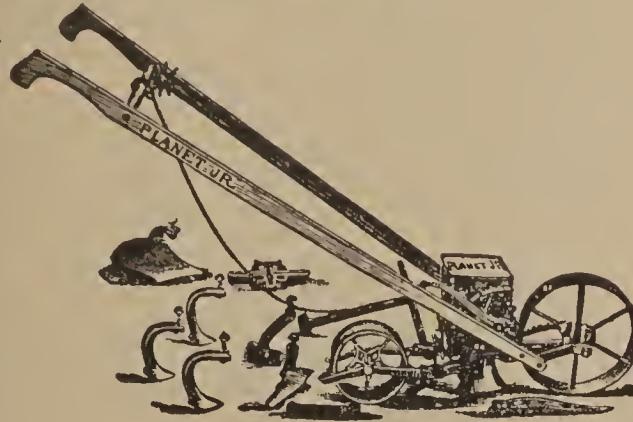
No. 48A Barrel Pump Complete as shown \$12.00

## Planet Jr. No. 4 Combined Hill and Drill Seeder and Single Wheel Hoe

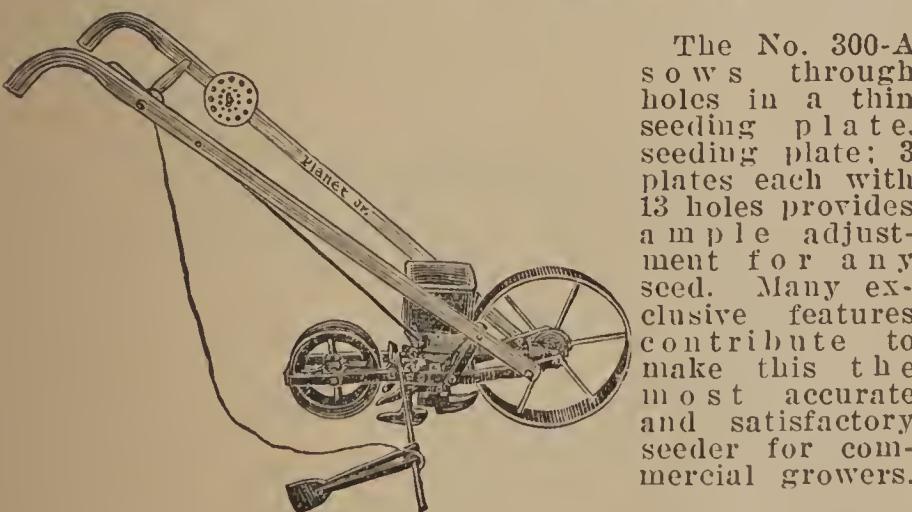
The No. 4 is a combination of the most useful tools for a moderate sized garden. It plants almost all vegetable seed in continuous rows or in hills 4, 6, 8, 12 or 24 inches apart. A plow adjustable for depth opens a straight narrow furrow, the seeds are dropped in it, are covered and the soil firmed and the next row marked out all in the same operation. Converted into a Single-Wheel Hoe by changing 1 bolt.

Cultivating equipment includes all the essential equipment for hoeing, weeding, cultivating, plowing, furrowing, ridging, etc. The tools are oil hardened and tempered and will wear almost indefinitely.

No. 4—Complete \$19.50  
No. 40—Planter only 15.50



## Planet Jr. No. 300-A Seeder



No. 300A—Planter only \$21.00

The No. 300-A sows through holes in a thin seeding plate. Seeding plate; 3 plates each with 13 holes provides ample adjustment for any seed. Many exclusive features contribute to make this the most accurate and satisfactory seeder for commercial growers.

## Cyclone Seed Sower

A machine of very simple construction. This seeder will sow any seed that is sown broadcast, such as Oats, Wheat, Rye, Millet, Clovers, Grass Seeds, etc. It can be very easily adjusted to suit seed being sown. We sell a world of them every year and our customers say they give good satisfaction. \$2.75 each, customers paying transportation charges. Mailing weight 6 pounds.

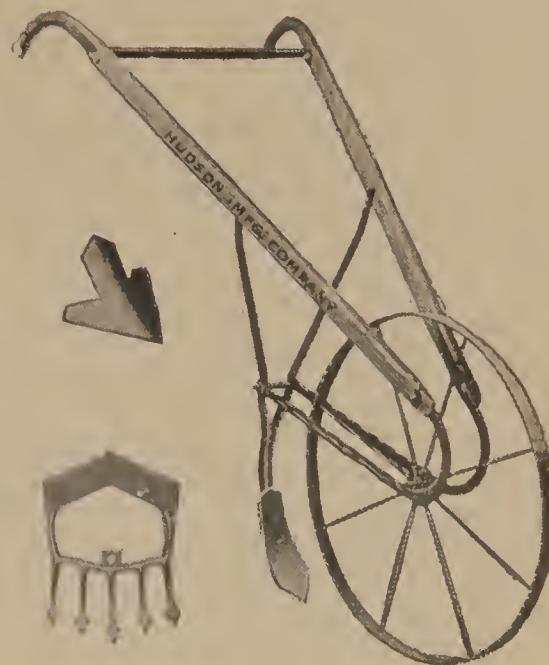


## Hudson Garden Plow

A counterbalance plow, with a 24-inch high wheel made of the very best material and most careful workmanship. This is a good strong, durable tool and can be used in the largest gardens. Is very popular and the best of its kind. Shipped with tools as shown.

Weight 28 pounds.

No. 242—each \$3.75



## Garden Trowels

No. 80—Garden Trowel. One-piece pressed steel. Handsomely finished in baked enamel. Length of blade 6 inches. Ground and polished points. Each, 12c; shipping weight 8 ounces.



## Transplanting Trowels

No. 81—Transplanting Trowel. One-piece pressed steel. Handsomely finished in black and baked enamel. Length of blade, 6 inches. Width  $1\frac{3}{4}$  inches. Ground and polished points. Each, 12c; shipping weight 7 ounces.



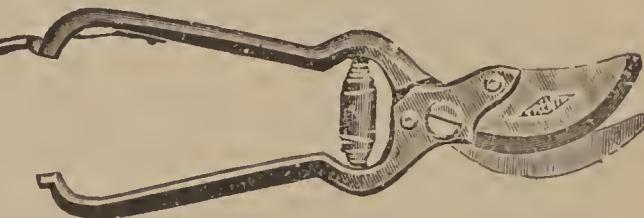
## Garden Weeder

No. 82—Garden Weeder. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Each, 12c; shipping weight 7 ounces.



## Pruning Shears

California pattern. Length, 9 inches, tempered tool steel blade. Volute spring. Adjustable ratchet nut. Black japanned handles. Weight 1 pound. No. 313—



Each \$ .60



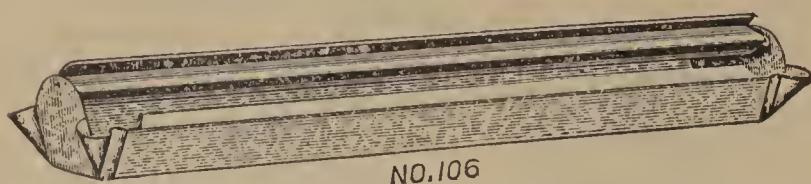
## Granulated Peat Moss

Something new which is just coming into general use. Imported Peat Moss is a brown, soft and spongy matter, formed years ago by the decay of mosses and other vegetable matter. It has high fertilizing value; holds moisture and is especially valuable for waxy lands. One bale is sufficient to cover 240 square feet one inch deep. The bale weighs approximately 140 pounds. Ideal for potting bulbs, either to be grown in water or under soil conditions. 5c per lb.; \$3.00 per bale, f.o.b. San Antonio.

## RAFFIA

For bunching vegetables and tying flowers and vegetables to supports. We handle only the best grade. Lb. 45c; 5 lbs. \$1.75, postpaid. Not prepaid: 10 lbs. \$3.00; 25 lbs. \$6.50.

## Winner Chick Trough



NO. 106

Trough is made of heavy gauge galvanized steel; die stamped in one piece; holds either feed or water; turned flange along trough edge is folded—no sharp edge. Flange prevents feed waste.

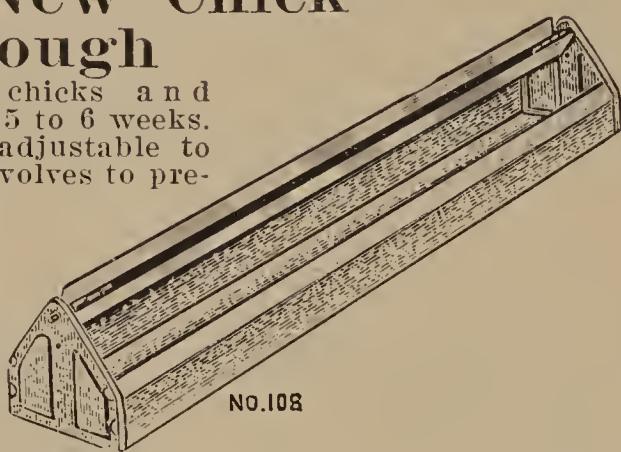
Revolving metal reel is "Z-shaped" for strength; will not warp or stick; prevents chick from roosting or getting into trough.

Trough is 1½ inch deep, 2½ inches wide at bottom and 3½ inches wide at flange upturn. A big value. The price is surprisingly low.

No. 104A—12 in. long, each	\$ .15
No. 105A—18 in. long, each	.20
No. 106A—24 in. long, each	.25

## Oakes' New Chick Trough

For starting chicks and feeding the first 5 to 6 weeks. Metal Z reel is adjustable to two positions. Revolves to prevent roosting. Trough is 1¾ in. deep and 3½ in. wide. Smooth turned flange to prevent waste of feed. Made of heavy gauge galvanized steel.

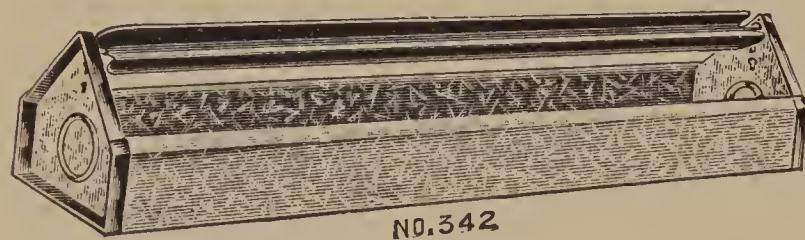


NO. 108

No. 107—12 inches, each	\$ .20
No. 108—24 inches, each	.30
No. 109—36 inches, each	.40

## Square Bottom Chick Trough

WITH METAL Z REEL



NO. 342

Revolving metal reel prevents chicks roosting or getting into trough; reel adjustable to 3 positions; will feed day-old chicks or 8-weeks old; a real all-purpose feeder at a low price.

Trough of 26-gauge galvanized steel is 4 inches wide and 2 inches deep; turned flanges along trough edges prevent feed waste.

No. 342—2 feet long, each	\$ .40
No. 343—3 feet long, each	.55
No. 344—4 feet long, each	.70

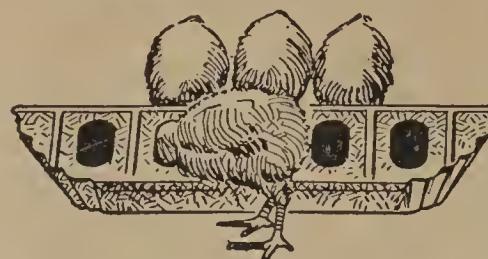
## Oakes' Feeders for Growing Chicks



Made of steel, 4 feet in length, capacity about 12 qts. Wires 2 inches apart prevent fowls getting into trough. No. 6A—Without lid, each \$1.20

**POULTRY FLOCKS** should always have a good pasture available. We have many items of seed that make an ideal pasture, such as Chicken Lettuce, Rape, Alfalfa and many grains.

## Oakes' Chick Feed Troughs



These troughs are ideal for feeding chick starter to baby chicks. Trough is stamped out of one piece of heavy galvanized steel without seams. Very easy to keep clean. The grate is a separate piece and slides on and off easily. Prevents waste of feed. Made of galvanized steel for dry feed and heavy charcoal tin for feeding milk.

### MASH FEEDER

No. 71—Galvanized, 10-inch, each	\$ .15
No. 72—Galvanized, 20-inch, each	.25
No. 71A—Tin, 10-inch, each	.25
No. 72A—Tin, 20-inch, each	.40

## Oakes' Chick Trough



A new inexpensive chick trough. Made of galvanized iron with galvanized cross wire welded on. Ends are soldered on so that trough can be used for either feed or water. Easy to fill and clean. Cross wire prevents chicks from getting into trough or soiling feed.

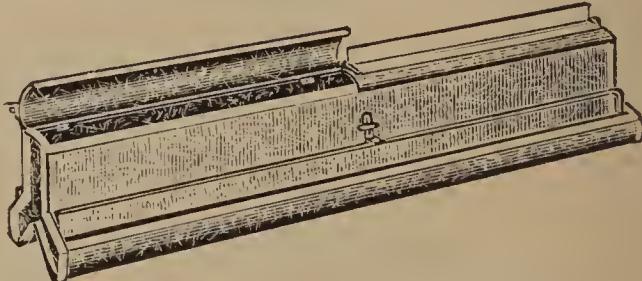
No. 5120—18-inch, each	\$ .25
No. 5124—22-inch, each	.30

## Oakes' Inexpensive Chick Feeder



This feeder is made in one size, 42 inches in length. Sloping top prevents roosting and slides off for filling or cleaning. V-shaped bottom throws feed toward the outside and prevents clogging. Has 68 feeding spaces. No. 375—42 inches long, each \$2.00

## Wire Guarded Chick Feeder With Adjustable Wire Guard



This feeder will accommodate a large number of chicks at one time. The open trough principle is featured in this feeder. It accommodates a larger number of chicks at one time than a covered trough with individual feeding holes. The wire bar extends the full length of the trough. Adjustable up and down to regulate the width of the feeding space from chick size to pullet size.

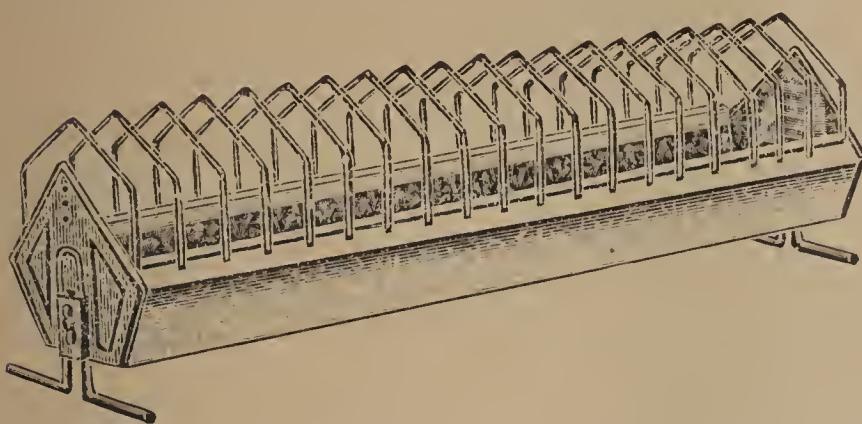
Inverted V-bottom throws all the feed forward into the trough and prevents it from gathering in the center and becoming stale. Hinged lid makes it easy to clean and fill. The tilting device prevents roosting on top. No. 634—35 inches long, 18-qt. capacity, shipping weight 10 lbs., each \$2.00

TO PRODUCE BETTER MILK AND CREAM  
STERILIZE ALL DAIRY UTENSILS.

**B-K** SAVES TIME  
AND LABOR

Kills the bacteria on utensils immediately—fast working and effective.  
(See page 44 for Prices)

## Grill Top Broiler Feeder



A convenient and durable feeder for growing chicks. The galvanized wire grill is hinged and swings back for filling and cleaning.

Trough is  $6\frac{1}{4}$  inches wide and 3 inches deep. It is made in heavy galvanized iron or in bright charcoal dairy tin for milk feeding.

No. 3942W—42 inches long, galvanized, each-----\$1.50  
(With Adjustable Legs)

## Gro-Fast Feeder ALL PURPOSE FEEDER



The Gro-Fast Feeder Trough provides sanitary feeding conditions for chicks of all ages—from day old to broiler size. A wonderful all purpose feeder. The trough is heavy gauge galvanized steel with spot-welded ends. Flaring sides increase feed capacity. Smooth, double fold edges are turned in at just the right angle to prevent feed waste. Trough is  $4\frac{1}{4}$  inches wide at top edge,  $3\frac{1}{2}$  inches at bottom. Depth  $2\frac{1}{4}$  inches.

The adjustable stand is made of heavy wire which slides up and down and is held in place by friction. The several corrugations in the end of the trough determine the different heights. Trough stays set when adjustment is made. Trough is adjustable to 6 positions; height at trough edges ranges from  $2\frac{1}{2}$  to 5 inches.

No. 233—3 feet long, each-----\$.95  
No. 234—4 feet long, each-----1.10

## New Giant Flock Feeder

Nothing flimsy about this feeder. GIANT in construction and proportions. Built to give efficient, profitable service for a long time. Trough body is heavy 24-gauge galvanized steel with die-stamped ends. Trough is 11 in. at greatest width. Outside top width 10 in. Depth, 5 in. Turned flanges, 1-inch wide, along trough edge prevent falling out of feed and provide a perfect support for roost-proof wire grill. Sturdy stand has  $\frac{1}{8}$ -inch angle iron legs bolted to trough body, and angle iron cross members for perch support; strongest possible construction. Always rigid. Adjustable perches of clear lumber 3 inches wide, may be moved in or out for pullets or mature birds. Perch height, 18 inches to eliminate vent-pecking and permit full advantage of floor space under trough.

No. 1160—5 ft., capacity,  $5\frac{1}{2}$  pecks mash, 42 feeding spaces, each-----\$5.00  
No. 1196—8 ft., capacity,  $8\frac{4}{5}$  pecks mash, 64 feeding places, each-----7.25

## Oakes' Mammoth Round Feed Hopper

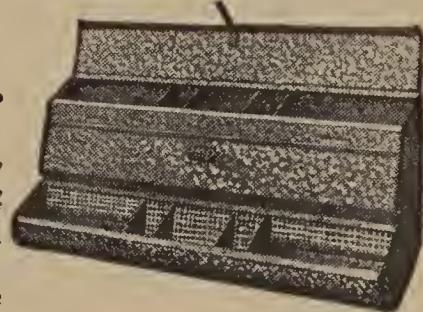
A compact, convenient hopper for feeding dry mash to large flocks. Round shape accommodates more fowls with less fighting and less muss. Seamless steel trough, 22 inches in diameter,  $3\frac{1}{2}$  inches deep, divided by partitions to prevent waste of feed. Capacity, 100 pounds.

No. 10—65 qt., without stand	-----\$5.00
No. 11—65 qt. with stand as shown	-----\$6.00
No. 510—36 qt. without stand	-----\$3.00
No. 511—36 qt., without stand	-----\$2.50

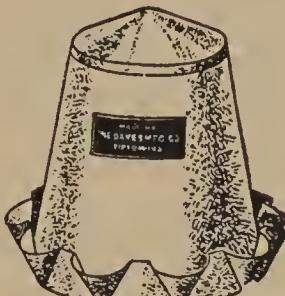


## Improved Handy Hopper

Hinged lid keeps out rats, mice and dirt. Swing front, adjustable to any kind of dry mash, eliminates clogging. Hopper 15 inches high,  $4\frac{1}{2}$  inches wide, and made in three sizes.



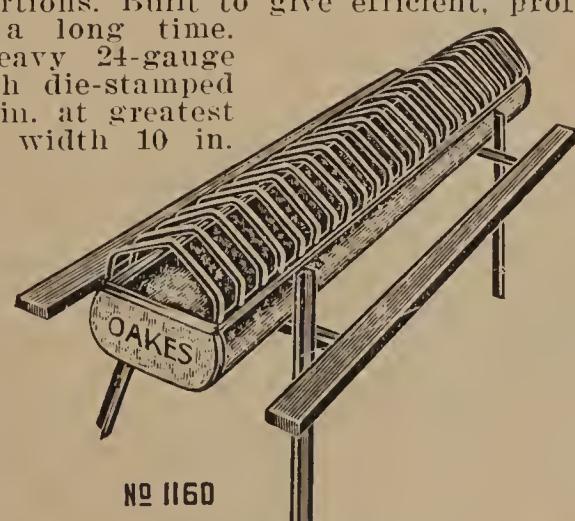
No. 13—18 in. long, each	-----\$1.90
No. 14—24 in. long, each	-----2.15
No. 15—Five compartments, length 36 in., each	-----3.00



## Bottom Filled Fountain

Consists of a cone-shaped can and a stamped pan, which forms trough from which the fowls drink. Both parts made of galvanized sheet metal and well soldered.

No. 78—1 qt., each 25c	-----\$.19
No. 79—2 qts., each 35c	-----.25
No. 50—2 gal., each \$1.25	-----.75



## Buttermilk Feeder

A perfect feeder for sour milk, buttermilk, water, hard grain or grit. The container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Shipping weight, 1 lb.

Each 25c

No. 70B—Holds  $\frac{1}{2}$ -gallon jar.  
No. 70A—Holds 1-quart jar.

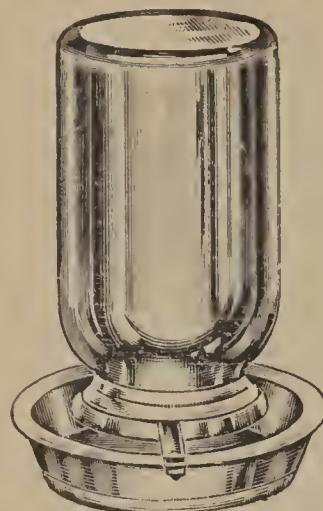


## Jar Fountain

Made from two materials, extra heavy galvanized iron, charcoal tin. No solder used; very substantial pan with heavy rolled edge; electric-welded center; can be used for chick feed as well as water. Charcoal Tin fountain is designed for dispensing buttermilk and sour milk especially. We do not furnish the glass jars.



No. 69G—Galvanized; shipping weight 8 oz.; each 10c; 3 for	-----\$.25
No. 69T—Charcoal Tin; shipping weight 7 oz.; each	.16



### Glass Pan Fountain FOR USE OF MASON JARS

The drinking pan is of heavy glass with smooth edge. The Mason Jar screws into the metal clip and is held firmly in position. The clip snaps over the outer edge of the pan. Jar and pan are quickly detached from the pan for filling or cleaning. An ideal fount for feeding buttermilk or medicated water. Saucer is 6 inches in diameter. Chicks cannot get into the pan.

No. 65-G-----Each \$ .15  
(Glass Jar not included)  
2 for 25c

No. 67G—Galvanized pan with metal clip, each----\$ .10  
3 for 25c

No. 67T—Charcoal tin pan with metal clip, each---- .12

### Jar Fount and Stand

This fount is similar to the above Mason Jar Founts with the exception that the clips have wire leg extensions. The high legs lift saucer up out of the litter and keep it clean. Not too high for day-old chicks, but it puts the fount up where the chicks cannot wade in the saucer. Each

No. 1365-G—Glass Pan -----\$ .15

No. 167-G—Galvanized Pan----- .12

No. 167-T—Charcoal Tin Pan-- .13



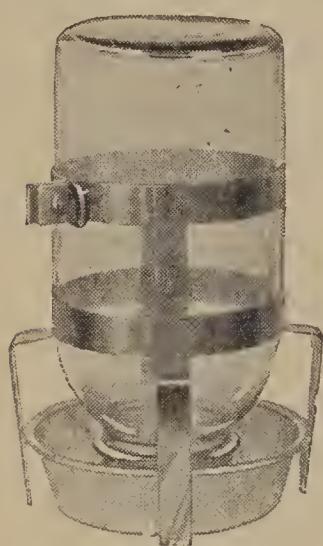
### Mason Jar Holder

This holder is so constructed that it will clamp around a Mason Jar and it may be adjusted either up or down to fit either earthenware or aluminum pan for buttermilk feeding.

#### Holder Only.

No. 71-A—1 quart size,  
30c value, each-----\$ .15

No. 71-B—1/2 Gal. size.  
30c value, each----- .15

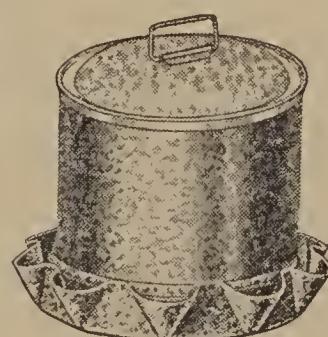


### Oakes Snap-On Fount

Made from heavy galvanized iron in two pieces. Top made with handle for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. 100B—1 gallon; shipping weight 4 lbs., each-----\$ .60

No. 100C—2 gallons; shipping weight 6 lbs., each----- .90



### Oakes' New Float Valve Fountain

Heavy 26-gauge galvanized steel tank rests in loose drinking pan. Convenient bail for carrying. Roost-proof die drawn top is quickly removed for easy filling. Float locking device closes valve when tank is removed from pan for quick and easy cleaning. Pan may be washed like a saucer. Big brass float controls positive operating valve mechanism. Correct water level always maintained in drinking pan. Brass screen insures perfect operation of valve. A heavy duty outfit which gives real satisfaction. Actually pays for itself in extra egg production.

Positive float valve shown at right. Big brass float. Powerful leverage on valve. Locking device raises float, closes valve when tank is removed for cleaning pan.

Pan diameter 15 inches; tank diameter, 12 inches.

No. 403—3-gallon capacity, each----- \$2.00

#### OAKES' BLUE FLAME BROODER REPAIR PARTS

BF-1T—Glass Oil Tank Complete with Valve-----

\$1.25

BF-2V—Valve only for oil tank-----

.50

BF-3W—Double 3" Brass Wafer-----

.27

BF-5A—Adjusting Screw with Lock Nut-----

.25

BF-7W—Wick-----

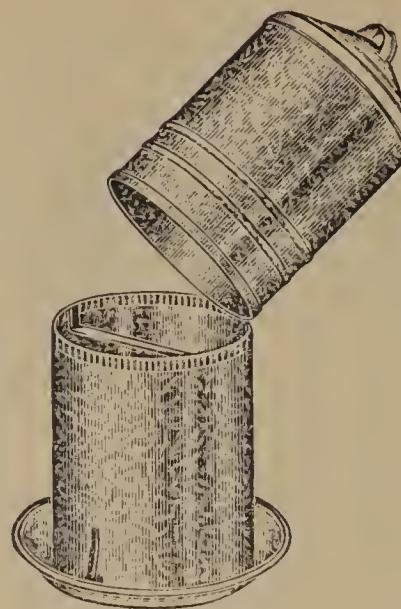
.15

BF-8N—Needle for Valve-----

.25

BF-9S—Spring for Valve-----

.10



### Dandy Double Wall Fountain

This new double wall fountain is top filled. Double wall helps to keep water cool in summer and retards freezing in winter; operated on the vacuum principle. No corks or valves. Easy to fill or clean; just lift off the outer can by the convenient handle. Outer can locks to inner can so it may be carried by handle when filled.

Die-drawn modernistic top slopes sharply to prevent roosting. Drinking pan is seamless, die-drawn with smooth rolled edge; securely soldered to inner tan. Pan is 1 1/2 inches deep. Clearance between tank and pan edge is 1 inch. Baby chicks cannot drown in this pan.

No. 92—2-gallon size, each----- \$1.45  
No. 93—3-gallon size, each----- 1.70

### Double Wall E-Z Fill Fountain

This extra heavy durable fountain is one of the most popular in our line. The heavy bail makes it convenient to carry water in the outer tank; bail is held up out of the drinking pan when waterer is not in use.

Inner tank has handle; this part of the fountain may be used to carry water also. When the outer tank slides into place, it pushes in a spring lever that releases the water which is held at the proper level of the trough through the vacuum principle. Valve closes when outer tank is removed so that drinking pan does not overflow when filled.

Tanks are heavy 26 gauge and drinking pan is 24 gauge seamless, die-drawn with smooth curled edge.

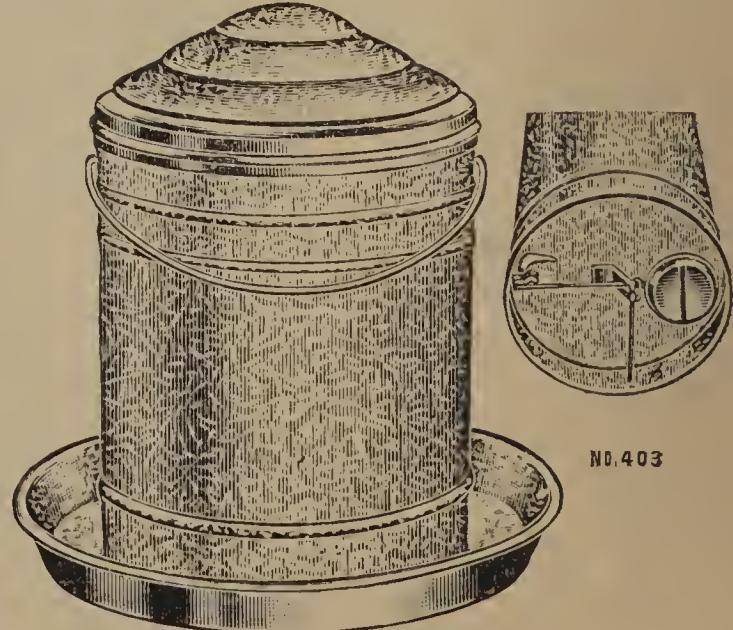
No. 31—3-gallon size, each----- \$2.35  
No. 32—5-gallon size, each----- 3.10



### Cone Top Snap-on Fount

Made of heavy gauge galvanized steel, all seams soldered water tight. Tank snaps onto pan on three metal clips fastened to pan holding tank in place by friction. Drinking space one inch wide all around pan. Depth of pan 1 1/2 inches. Small chicks cannot get into water and drown.

No. 81—1-gallon size, each----- \$ .75  
No. 82—2-gallon size, each----- .95



NO. 403

## Adjustable Float Valve

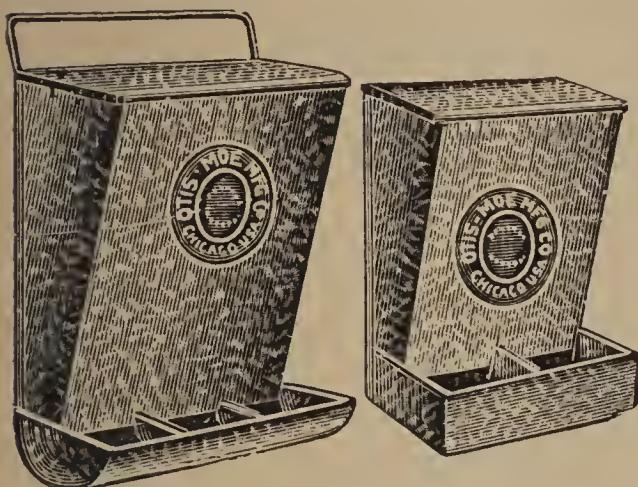
This Simple Valve SOLVES the Watering Problem



At last, a trouble-proof water valve that works automatically! It is so simple in design, so perfect in operation you will marvel you did not think of it yourself. Easy to attach—nothing to get out of order. A hollow metal float rests on the surface of the water, and as level rises and falls, the valve automatically closes and opens. This insures a constant supply of pure, clean drinking water—a vital factor in successful poultry and small stock raising.

No. 904—Each ----- \$1.00

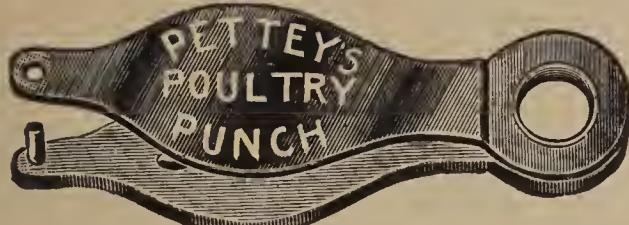
## Grit and Shell Boxes



Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks. Shipping weight, 3 pounds.

No. 73—For baby chicks, each ----- \$.85  
No. 46—For grown birds, each ----- 1.10

## Oakes' Poultry Punch



A popular and practical punch. Makes a clean perforation and does not bruise the foot.  
No. 38—Oakes' Punch, each, 2 oz. ----- \$0.20

## Moe's Ideal Poultry Punch

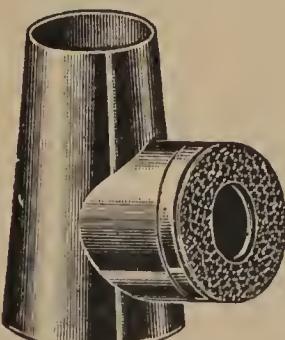


A new improved punch. Works easily, cuts clean, and does not pinch the foot. Length 3½ in. Nickel plated.

No. 39—Moe's Ideal Punch;  
Each ----- \$0.35

## Oakes' Egg Tester

K-131—Used to test fertility of eggs. Use on an ordinary lamp No. 2 burner, in a dark room. It will illuminate interior of egg so that you will know if the chick is alive. Also shows size of air cell. Each 25c.  
Each ----- \$.25  
Shipping weight, 1 lb.



All poultry supplies are quoted f.o.b. San Antonio. If you desire same sent by parcel post, kindly include postage with order.

NOTE—We can get any style leg band you desire and numbered up to 1,000; it will take from 1 to 2 weeks to fill these special orders. 25% of amount of order is required when sending in order. Mail us sample or picture of band desired if not listed in this catalog.

## LEG BANDS FOR POULTRY

### Bandettes

Bandettes are easily applied single-handed, simply open out Bandette, hook it on leg, and allow it to close around the bird's leg; should not fit tight.

Bandettes are made in 5 colors: blue, red, yellow, green and pink.

Two sizes: No. 9 for Leghorns, and No. 11 for Rocks, Reds, etc.

Bandettes are sold in unbroken sets of 25 in one color: 1-25, 26-50, 51-75, 76-100, and so on.

25	-----	\$ .60
50	-----	1.10
100	-----	2.00
500	-----	9.50
1000	-----	18.00

### Colored Leg Bands



Made of celluloid, in fast colors. Keep their shape. Light in weight and very durable. Quickly put on or removed. Put up regularly 50 bands of a size and color in a bundle. Colors: white, black, red, pink, green, blue, purple and yellow.

	50	100	1000
No. 4—For Baby Chicks	\$0.25	\$0.40	\$3.50
No. 7—For Bantams	.35	.60	5.00
No. 8—For Leghorns and Anconas	.35	.60	5.00
No. 11—For Large American	.40	.75	6.00
No. 12—For Asiatic Hens	.45	.80	6.50

### Wing Bands



Wing Bands—Double clinch open ----- Each 1c; 100, 75c  
Sealed ----- Each 1c; 100, 85c

### Economy Poultry Bands



Poultry Sizes. The Standard poultry sizes with two large black numbers from 1 to 100, with black ink on celluloid. Size No. 2 (for Pigeons), Size No. 3 (for Leghorn hens), 3c each. Size No. 4 (for Rhode Island Red, Plymouth Rock, and Orpington Females and Leghorn males); ½ inch wide, 2½ inches long from slot to shoulder. 3c each; 100, \$2.25. Shipping weight, 8 oz.

### Aluminum Pigeon Bands

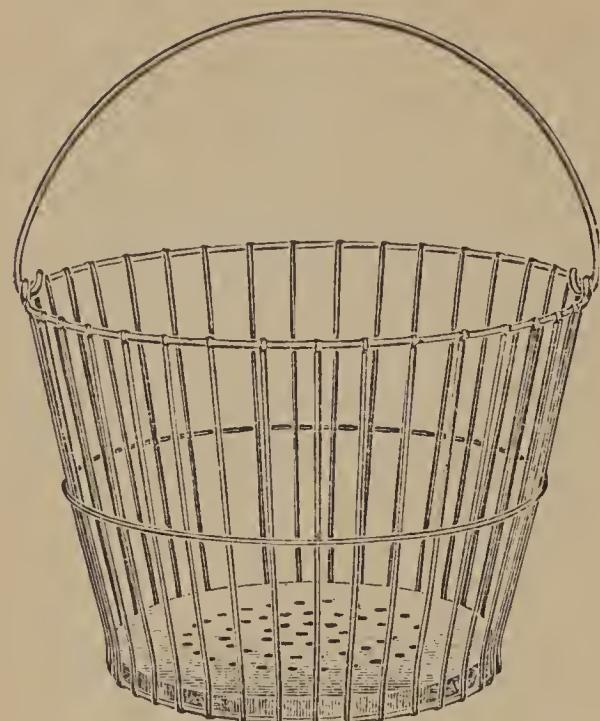
Made of aluminum with stamped numbers.  
Open ----- Each, 1c; 100, \$0.80  
Closed ----- Each, 2c; 100, 1.75

### Moe's Aluminum Leg Bands



Made of sheet aluminum with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Numbered 1 to 4999, as wanted.

12 bands	-----	\$0.15	100 bands	-----	\$0.75
25 bands	-----	.25	500 bands	-----	3.50
50 bands	-----	.40	1000 bands	-----	6.00



### Sun Hinge Burner

For Incubators or Brooders. So designed that perfect combustion is assured. Burner dome held in place by spring catch. Dome lifts for cleaning and trimming the wick.

No. 3—Double Wick, 1 1/4 inches  
Each-----\$ .90

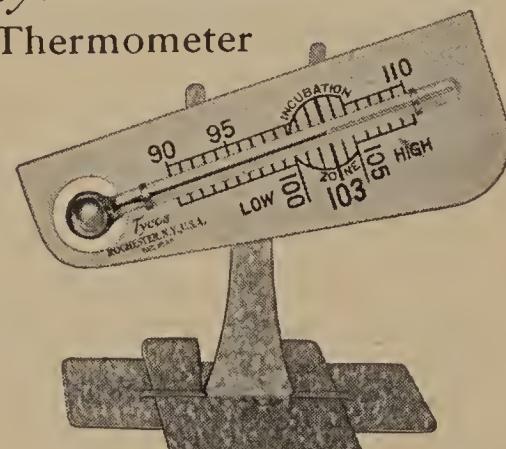
### Incubator Lamp Wicks

Made of felt. The best wick to use in your incubator lamp. State width of wick when ordering; weight 2 oz.  
Each-----\$ .05  
Dozen-----.50

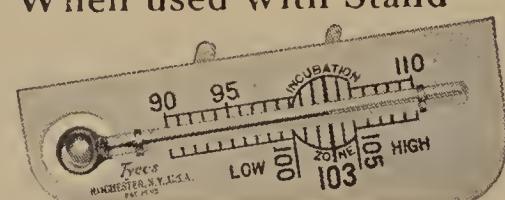
### Tested Incubator Thermometers

No. 5776

Tycos Incubation-Zone Thermometer



When used with Stand



When used without Stand

### Brooder Thermometer

No. 5792—Genuine "Tycos" Thermometer. To be inserted through a hole in top of the brooder so bulb is in actual brooder temperature, and scale is outside for easy reading. Weight 6 oz.  
Each-----\$ .75

No. 54404—Brooder Thermometer—To be hung on the canopy. Each-----.45

No. 125—Buckeye Brooder Thermometer. Each-----1.25

No. 741—Heavy gauge metal finished in baked enamel, guarded bulb, to be hung on canopy; each-----.35

### Egg Cooling Basket

Made of Galvanized Wire

For gathering and quick cooling of eggs. The quicker the eggs can be cooled the better they will be. Clean, fresh flavored eggs always bring premium prices. Store eggs in wire cooling baskets in a room temperature of 60 degrees for best results.

Oakes' Wire Egg Cooling Baskets have a perforated metal bottom to permit free circulation of air. This bottom protects eggs from wet litter or wet grass when the basket is used for gathering the eggs. Galvanized wire finish does not mark the eggs.

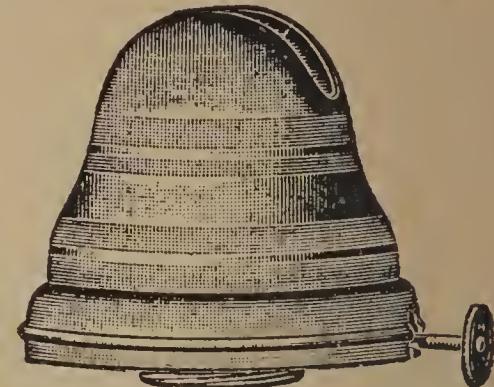
Very sturdy and substantial. Bail, top and bottom rings are No. 6 wire. Side stays are No. 10. No weave or sway to this basket.

No. 15—Galvanized Egg Baskets, each-----\$ .90

### Zenith Burner

The most satisfactory burner for heating poultry fountains. Requires no chimney. Delivers a large volume of heat. Flame spreader has special air passages to prevent over-heating. Top lifts off for easy cleaning or trimming of wick. Wick tube is heavy sheet brass. Made in single wick only. Each burner complete with red felt wick.

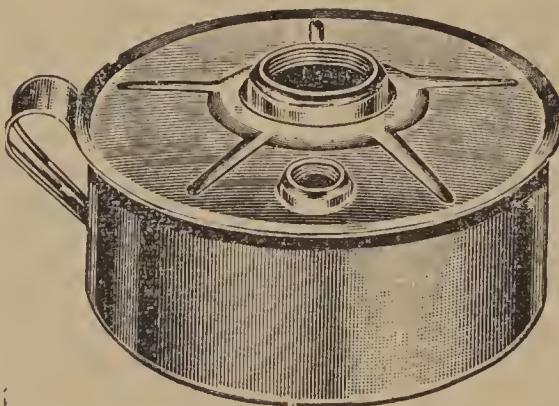
No. 2—7/8 inch, each-----\$ .75  
No. 3—1 1/2 inch, each-----1.05



### Lamp Bowls

Lamp bowls are of seamless one-piece construction. Die-drawn from heavy terne plate. Reinforced tops are double-seamed and slope from the burner collar to the edge so that no oil can accumulate on the top even if spilled when filling. No give or spring to the top or bottom.

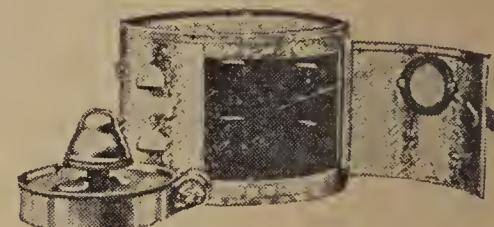
No. 205—No. 2 Burner size,  
1 qt. capacity, each-----\$.65  
No. 220—No. 3 Burner size,  
2 qt. capacity, each-----.80



### Fountain Heater

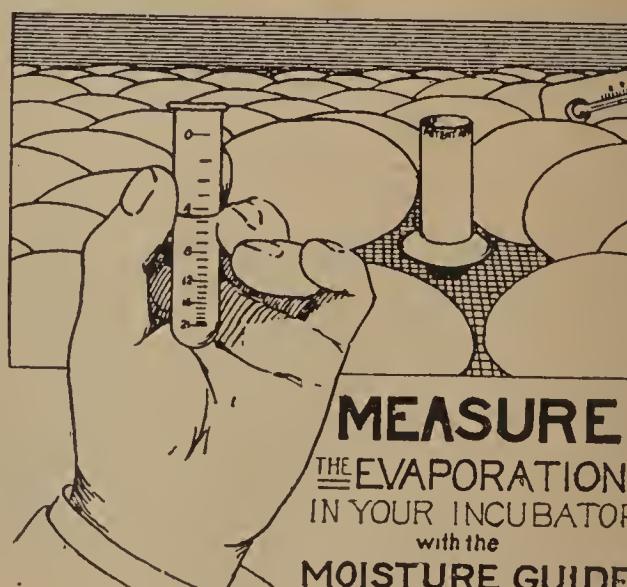
Also used as Brooder Heater

Suitable for any kind of drinking fountain and for any size up to four gallons. Insures warm drinking water at all times. Heater of galvanized iron with chimneyless kerosene burner—stands firmly, and fowls cannot overturn it.



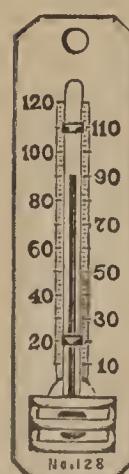
No. L14, each, \$1.90

### Patterson and Young Moisture Guide



**MEASURE**  
THE EVAPORATION  
IN YOUR INCUBATOR  
with the  
**MOISTURE GUIDE.**  
IT "SOLVES THE MOISTURE PROBLEM."

This moisture guide solves the moisture problem with your incubator. The holder is fastened to the egg tray and the guide is filled with water to the top line. The graduated scale shows how much moisture should evaporate from the egg each day. If evaporation is too fast, moisture should be added; if too slow, more air should be given. Full directions go with each guide. Attachments are included for all turning trays. Every owner of an incubator should have this moisture guide. Weight 3 oz. Each, \$1.00.





## Oakes' "Sun-Lite" Oats Sprouter

Made of galvanized iron, each 18-inch perforated pan or tray can be removed separately. No lamp or fuel required. Put in the oats, moisten a little daily and in three or four days you can feed sprouts.

No. 63—6-tray, each-----\$4.80

## Sure-Trip Trap Nest Front

The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down the feed bills for the man who wants to keep only those birds that produce. Strongly built of good lumber, as light in weight as consistent with strength and durability—with a trap that works noiselessly and surely. Each, 35¢; 100, \$30.00. Weight, 1 lbs. each.



## Oakes' Egg Scales



In many localities eggs are now being bought and sold according to weight. Indiana has been using 22 ounces to the dozen eggs; just right for our No. F-53, while No. F-54 will fit any standard. Oakes' Egg Scales are durable (constructed of steel) and simple; no springs—nothing to get out of order.

No. 55—Oakes' Graduated Egg Scale, each-----\$.50

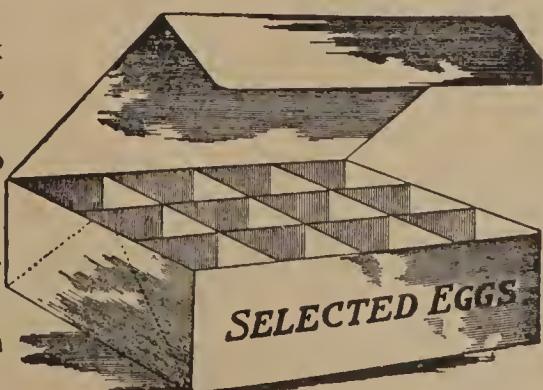


weight. Egg cup, lever parts chromium plated. Bearing pins of working parts rusting and affecting accuracy of scale. Base and dial support are attractively finished in Red Duco. Scale base 6 1/4 x 3 1/4; height 6 1/4 inches.

No. 20S—Egg Scale with adjustable stop-----\$1.60

## Yard Egg Boxes For Retail Trade

This is an ideal box for the retail egg trade, holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape.



3x4 Eagle, weight 12 lbs., per 100-----\$ 1.00  
3x4, Eagle, weight 105 lbs., per 1000----- 7.50  
2x6 Seminole, weight 17 lbs., per 100----- 1.50  
2x6 Seminole, weight 155 lbs., per 1000----- 12.50

## HATCHERY SUPPLIES

### Anderson Chick Boxes

The Original Anderson Master Breeder Baby Chick Pullman

Light in weight yet the strongest and safest chick box made. A very attractive checkered border box with a light blue inside liner. The result of 25 years' chick box building. Approved by all Baby Chick Associations.



#### REGULAR SIZE

25-chick size, each-----	\$0.15
50-chick size, each-----	.20
100-chick size, each-----	.25

Chick Size—	Up to 100	100 to 500	500 to 2000
A-100—Standard -----	\$0.20	\$0.17 1/2	\$0.15 1/2
A-50 —Standard -----	.13 3/4	.12	.10 1/2
A-25 —Standard -----	.09 1/4	.08	.07 1/4
HW-100—Hot Weather-----	.21 3/4	.19 1/2	.17 3/4
SF -100—Stickless Feed-o-box	.21 1/2	.19	.17
O -100—Oversize -----	.22 3/4	.20 1/4	.18 1/2
SFH-100—Stickless & Stapless	.23 1/4	.21	.19 1/4
3WK—50 Started Chick Box	.30 1/4	.26 1/4	.23
3F—Feeders for Started Chick Boxes, each-----			.02 1/2

#### SMALL LOCAL COUNTER CHICK BOXES

L-15—15-Chick size, per 100-----	\$3.05
L-25—25-Chick size, per 100-----	3.80
L-50—50 Chick size, per 100-----	6.50

Full freight allowed on Chick Boxes provided shipment weighs 100 pounds or more. Freight allowance does not apply on Chick Box Supplies.

#### STAPLERS AND STAPLES

ACME No. 11—Hand Powered Stapler, holds 100 staples, automatic feed, anti-clogging device, shipping weight, 9 pounds; price-----	\$9.00
No. XX—Staples, box of 5,000-----	1.55
No. 61—Staples, box of 5,000-----	1.60
No. 700—Staples, box of 5,000-----	1.60
Tin Hand Staples, per box of 1,000-----	.90
Piercing Tool for use with tin- or copper-coated staples, to guide the staples into the box; each-----	.40
Master Breeder 6-in. Redwood Sticks, per 1,000-----	2.60
Cardboard Sticks, per 1,000-----	2.70
Master Breeder Stick Glue, per 1-gallon can-----	1.00
Wood-Wool Pads, 9x11, per 1,000-----	8.50
Wood Wool, per bale, per lb.-----	.04 1/2
Gummed Paper Tape, 2-in., per roll-----	.40



## Anderson Egg Boxes for Shipping

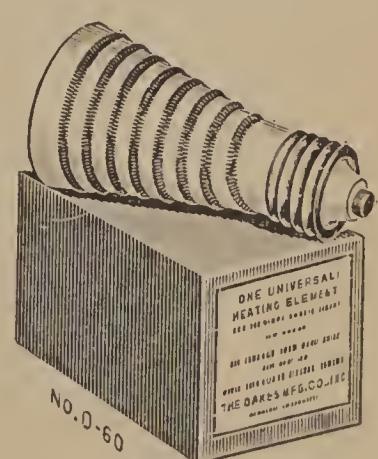
Made of extra heavy corrugated cardboard; built so as to stand rough handling and carry your setting eggs safely.

15-egg size, weight 1 1/2 lbs., each-----	\$0.30
15-egg size, weight 15 lbs., doz.-----	3.00
30-egg size, weight 2 1/2 lbs., each-----	.35
30-egg size, weight 26 lbs., doz.-----	3.60
50-egg size, weight 3 1/2 lbs., each-----	.50
50-egg size, weight 39 lbs., doz.-----	4.50

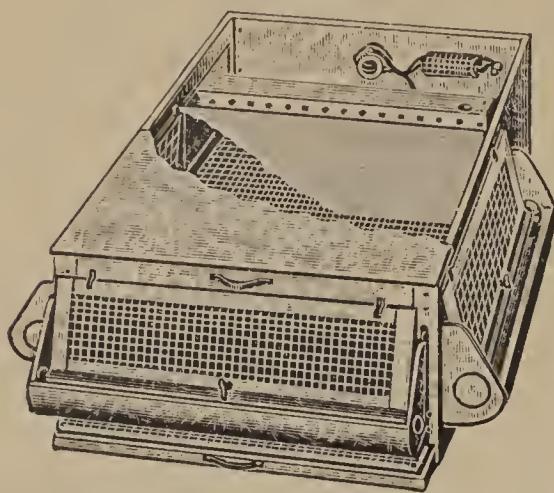
## Heating Element for Small Brooders

May be used in battery brooders instead of bulb. Puts out more heat and uses very little more electricity, 110 volts. Can furnish in 25-watt, 60-watt or 600-watt—the latter being used principally for small room.

O- 60—60 watt heating element, each-----\$0.55  
O-100—100 watt heating element, each----- .65



If You Have a Friend Who Would Be Interested in Receiving This Catalog, We would appreciate Your Sending Us Their Name So We Can Mail Them a Copy.



## Oakes "Gro-Ezy" Electric Brooders

This sturdy product embodies many of the best features to be found in any Battery Brooder. It is substantially built. Mounted on casters for portability. Each drawer or shelf is a separate independent unit and can be used outside the portable rack.

Each drawer slides out of the frame as a complete unit. The woven wire floor of  $\frac{1}{2}$ -inch mesh is finished in bright tin. This floor is not to be compared with the dingy hardware cloth ordinarily used. Droppings cannot catch and hold on wire intersections. A deep dropping pan is just underneath the floor with  $1\frac{1}{2}$  inches of clearance. Pan is easily removed.

The chicks eat from open troughs. Every chick has a chance to get its fill. A chick will go to an open trough every time in preference to eating or drinking through holes or between wires, or bars. In each "Gro-Ezy" drawer there are two 20-inch feed troughs and one 20-inch water trough. These troughs are open their entire length. The feed is easily accessible and yet the chicks cannot get into it or foul it.

Chicks always see the feed but no feed is wasted. Doors lift up and drop into slots in the ends of the trough, providing an adjustment of the feeding into slots in the ends of the trough, providing an adjustment of the feeding

space from  $\frac{1}{2}$  inch to  $1\frac{1}{2}$  inches in width. This is ample room for chicks from a day old to ten weeks old. Each drawer is 35 inches deep,  $22\frac{1}{2}$  inches wide, and  $9\frac{1}{2}$  inches high. Chicks can be carried to 8 weeks.

The lid is removable. Canvas curtain is attached to lid and divides the drawer into two parts. Electric heating elements and Thermostatic Control are attached to back panel behind the canvas curtain.

No. 801—Drawer only; complete with heating element, automatic thermostatic control and plug socket,

weight 34 pounds, each

\$10.50

No. 8010—Same as 801 but heated with No. 2 Zenith Burner Oil Bowl, each

10.25

## Liv-an-Gro Brooder

These brooders are built to raise a small flock of chicks of not more than 50. Where a person does not desire to go to a great expense for brooder when they only wish to raise a small flock. Side walls and top are constructed of heavy corrugated cardboard with a smooth finish. Bottom is made of hardware cloth so that chicks are kept off the floor and creates a sanitary condition. Brooders come equipped with water and feed trough. May be heated with charcoal or electric current. If you have electric current, advise the electric heat. This brooder comes equipped with a complete drop with 8 foot of cord. Size of brooder is 18x22x6. Kindly specify kind of heat desired when ordering, charcoal or electric.

Each ----- \$2.10



## Brooder Wicks

Buckeye Kerogas No. 20-----	\$ .25
Buckeye Kerogas No. 45-----	.45
Buckeye Loraine -----	.30

## Charcoal Sticks

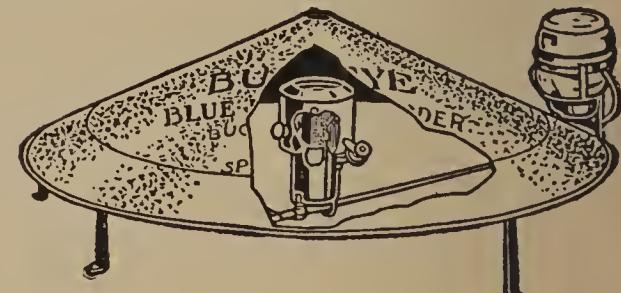
For Liv-an-Gro Brooders

\$ .10  
.80

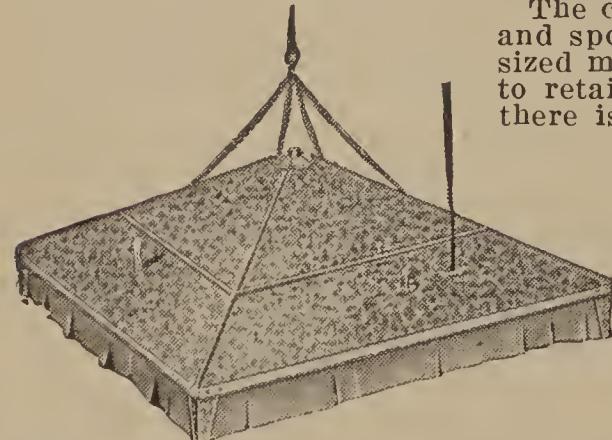
## Buckeye "Colony" Brooders Raise Every Available Chick

The Buckeye Oil-Burning Brooder has the new improved Burner that gives the maximum amount of heat with the minimum consumption of oil. It is a wick burner and the oil is fed by gravity. Buckeye is self-feeding and self-regulating; it doesn't clog; it doesn't flare up; it doesn't go out. Can be safely operated on any floor. Has "Diafram" Heat Conveyor, so attached to the canopy that it insures the radiation of heat to the very outside of the brooding area.

	Capacity	Canopy	Shipping Weight	Price
No. 27-A-----	250 chicks	34-inch	49 lbs.	\$12.00
No. 80-----	350 chicks	42-inch	50 lbs.	13.50



## Oakes' New and Improved Electric Brooders



The canopy and legs are made of high quality galvanized steel of four pieces bolted and spot-welded together. The 32-inch canopy will support the weight of an average-sized man. Top is lined with asbestos and has Celotex deck above the heating element to retain the heat, in the 32 and 42-inch sizes. In addition to the Celotex insulation there is a metal heat deflector which distributes the heat.

Ventilation is provided through a series of draft chutes located above the heating element.

Each brooder is equipped with special Wafer thermostat and electric cut-off switch provides automatic regulation of the heat at all time.

Special thermometer, 8 feet of drop cord, curtains, and pilot light furnished as regular equipment with all brooders.

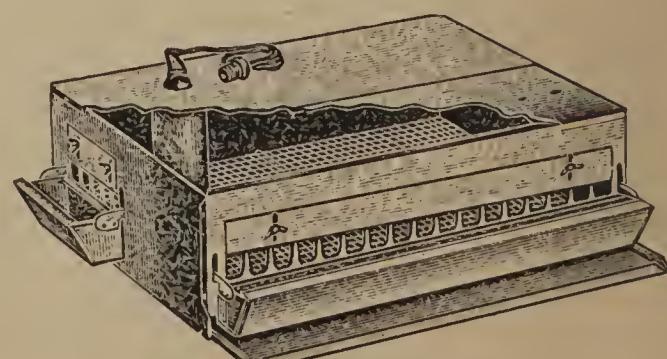
No. 722—22-in. Brooder complete, 75 chick-----	\$ 9.00
No. 732—32-in. Brooder complete, 150 chick-----	13.50
No. 742—42-in. Brooder complete, 250 chick-----	17.50
No. 752—52-in. Brooder complete, 385 chick-----	21.00

Automatic Heat Control — No Attention Required

## Happy Chick Metal Box Brooder

For 50-day-old chicks—18x22x6 inches inside. Hardware cloth floor, drop pan removable. Two-foot electric cord. Adjustable holes over troughs. Hardware cloth floor has 2 cross wire supports. Dropping pan pulls out front. Feeder trough extends across front. Water trough at rear, left. Adjustable slides control openings through which chicks eat and drink. Lid in two sections. Well ventilated. Electric bulb NOT FURNISHED.

No. 375—Metal Box Brooder, 1 in carton, 15 lbs., each ----- \$3.00



Protect tender young plants with HOTKAPS. Shield your plants from frost and wind. Full description and prices on page 21 of this catalog.

## Oakes' Outfit for Home-Made Electric Brooder

Now you can make your own Electric Brooder at very small cost. Simply use the Oakes' outfit illustrated below in connection with a wooden tub, half barrel or wooden box and you'll have a thoroughly dependable electric brooder at a very economical cost. Outfit consists of heater complete with legs and 8 feet of drop cord with detachable plug. We do not furnish tub shown in illustration. Works on 110 volt A.C. or D.C.

No. L-93-----

\$2.50



## Oakes' Blue-Flame Oil Burning Brooder

Giant 5-inch Burner, Automatic Heat Control, Heat Equalizer, Rigid Burner and Oil Reservoir are a few of the many outstanding features of Oakes Blue Flame Brooders. The most completely trouble-free brooder of its type on the market.

### GIANT RIGID BURNER

The 5-inch Burner produces an abundance of heat. Self-centering chimney drops right into place. No smoky flames as result of misplaced chimney. Burner and Oil Reservoir are rigidly mounted in metal housing. Burner

is always level. Does not tilt. Perfect combustion results. Flame is always even on all sides. No raising or lowering of burner. Can't get out of adjustment. No rocking of fuel reservoir. It's rigid, and stays put.

### AUTOMATIC HEAT CONTROL

Fuel feed to burner is controlled by a simple, positive acting efficient needle valve operated by Sturdy-Boy Brass Wafer. The thermostat opens and closes the needle valve by lever action. As the temperature rises the flow of oil in the burner is reduced by expansion of thermostat which closes the valve. If it turns colder, the valve is opened. Valve body of brass with small by-pass to allow sufficient flow of oil to keep burner from going out.

### HEAT EQUALIZER

Patented heat equalizer fits burner collar below flame level. This spreads and equalizes the heat so that chicks can hover near the burner in comfort. No hot spot at center of canopy. Heat is delivered to edge of canopy. Less than 5 degrees difference in temperature at burner and canopy edge. Brood more chicks.

Oil Brooders without this feature require an intense heat at the burner (150 degrees or more) to produce a temperature of 90 degrees at edge of canopy.

**CANOPY**—Heavy gauge galvanized steel canopy, hexagon shaped. Very rigid and substantial. Ventilator in top plus heat equalizer prevents pocketing of heat in peak of canopy.

Thermostat located at edge of canopy. Controls heat at point and insures a comfortable brooding temperature.

Oakes Blue Flame Oil Brooders are the greatest value ever offered in this type. Burn less fuel, produce controlled heat and brood more chicks. The real brooder value of the year.

No. 832—32-in. canopy, no heat equalizer; shipping weight 39½ pounds-----\$11.00  
No. 842—42-inch canopy, shipping weight 41½ lbs-----12.00  
No. 852—52-inch canopy, shipping weight 43½ lbs-----13.00

## Buckeye Electric Brooder

No. 91	No. 92
100	200
36 in.	46 in.
\$12.50	\$17.50

Chick capacity-----  
Diameter of canopy-----  
Price, each-----

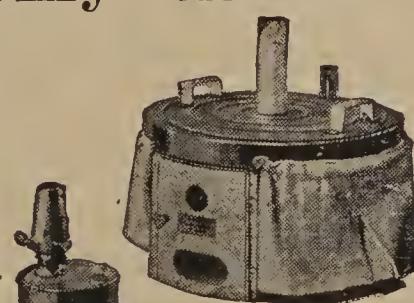
## Glass Nest Eggs

Made of white porcelain, natural in appearance, and uniform in size. Will not easily break. They induce the hen to lay where she should—in the nest.

Per dozen-----\$ .25

Weight, 1 pound

## Oakes' "Economy" Hover



**LAMP HEATED.** Simple in construction, made of steel throughout, and durable. Can be lifted by its two handles without disturbing the lamp and used anywhere with perfect safety as it stands on a level floor; no platform or other preparation necessary. Only a small flame is required, as the lamp is inside and no heat is lost. The curtain is double and made of outing flannel.

No. K-102—18-in. drum, 50 to 75 chicks-----\$5.40  
No. K-103—22-in. drum, 100 to 125 chicks-----8.10

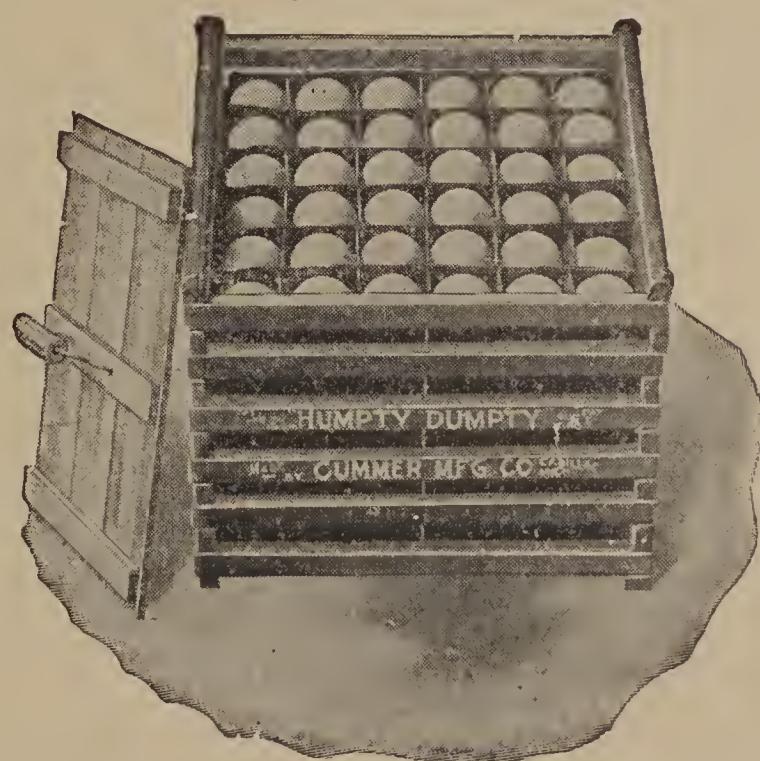
## Stoneware For Rabbits and Poultry

	Each
1 gallon Water Jug-----	\$0.25
2 gallon 2-piece Fount-----	.80
1 gallon 2-piece Buttermilk Fount-----	.50
2 gallon 2-piece Buttermilk Fount-----	.75
1 gallon 1-piece Non-Splash Buttermilk Fount-----	.75
Round Open Crock for Rabbits-----	.15
Round Crock with Lip for Rabbits-----	.20

### ONE-DAY SERVICE

We fill all orders the same day that we receive your order or notify you if we do not have merchandise in stock. We strive to please you and appreciate your patronage.

## Humpty Dumpty Egg Carrier



A very light, strong and convenient egg crate and carrier. Made of hard wood slots securely fastened. The lid with handle, springs into position when crate is filled. Parcel post weight, 7 pounds.

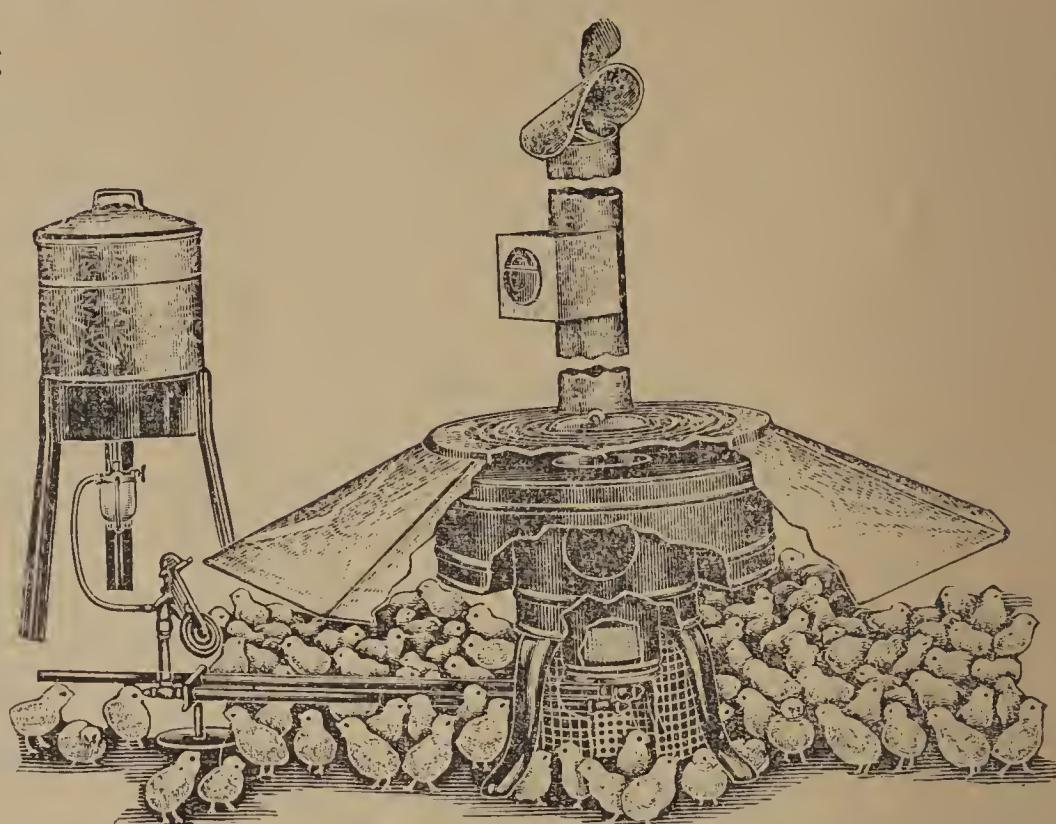
12-dozen size, collapsible-----\$.90

## Oakes "No-Cold" Oil Brooder

### 12 Outstanding Features:

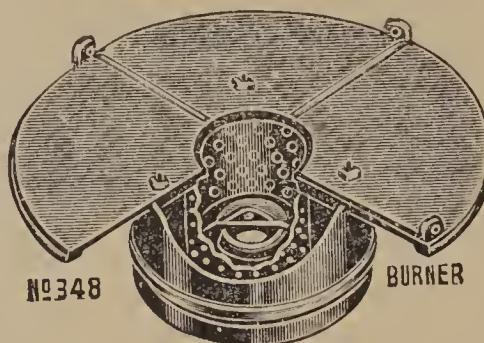
1. Burns Kerosene or Distillate.
2. Big Heater Drum  $22\frac{3}{4}$ " diameter.
3. Drum is  $7\frac{3}{4}$ " deep. Well baffled.
4. Almost 7 ft. flame travel in Drum.
5. Automatic Thermostat Regulator.
6. Efficient AIR-FED Burner.
7. Automatic Draft Equalizer.
8. Fuel Reservoir, 6-gallon capacity.
9. Safety Overflow Pipe.
10. Safety Wire Guard around Burner.
11. Cast Iron Legs on Stove.
12. Low Fuel Consumption.

Heavy gauge heater drum  $22\frac{3}{4}$  inches in diameter by  $7\frac{3}{4}$  inches deep in natural blue steel finish. Baffled to provide 7 feet of flame travel for heat radiation. Galvanized steel deflector top rests on top of drum with 2-inch clearance for air and circulation. Hexagonal canopy made of die stamped sections bolted together.



### Air Fed Burner

Cut-away section shown at right. Perforated central section feeds a continuous stream of fresh air to the burner. Has extra deep oil well with heavy cast steel generating plate. This AIR-FED burner provides perfect combustion conditions so that minimum of soot or carbon accumulates. It burns kerosene or distillate; easy to keep clean.



### Automatic Regulator

Heat is automatically regulated by flow of oil. Patented sight drip shows rapidity of oil flow. Con-

No. 348—Canopy, 42-inch from side to side; 500 chick capacity; shipping weight 70 pounds-----\$20.25

No. 360—Canopy, 52-inch from side to side; 750 chick capacity; shipping weight 80 pounds-----\$22.00

venient in adjusting. Positive fast and slow feed adjusting screws at top of regulator. Wafer thermostat controls temperature once adjusted. Spring valve has special seat; cannot stick.

### Each Stove Complete

EACH STOVE assembly comes complete with cast iron legs, 6-gallon fuel supply tank, automatic thermostat control, necessary copper tubing, globe valve for fuel tank, fuel pipe support, canopy, heat deflector top, draft equalizer, overflow pipe and  $\frac{1}{4}$ -inch fuel supply pipe with all necessary fittings. FUEL TANK STAND EXTRA. TWO canopy sizes. Canopy dimensions from flat side to flat side. From point to point, measure 6 inches more.

### POULTRY LITTER

In General Use by Progressive Poultrymen



This litter does away with the lack of sanitation that is usually evident in poultry houses. It is a labor-saver; prevents dampness; is absolutely sanitary, prevents the spread of disease, absorbs offensive odors; keeps the birds clean; makes an ideal dust bath; keeps the house warmer in winter and cooler in summer. **It is economical.** Though the original cost may be slightly higher than other litters, it outlasts others two or three times and saves the labor of handling. It prevents fire because it will not blaze. It takes an intense heat even to make this litter smoulder. After being used in the poultry house, it makes a most valuable fertilizer. Many poultrymen sell their O. K. Poultry Litter manure mixture to gardeners, florists and nurserymen at a high price. It does not injure the birds if eaten. One bale will cover 240 square feet with 1-inch of litter. Bales weight approximately 140 pounds. \$3.00 per bale, f.o.b., San Antonio, Texas.

### Rutland's Water Glass

One can is sufficient to preserve from 16 to 20 dozen eggs. Price per can 50c.

### Formaldehyde

Used to disinfect incubators and to control seed-borne diseases on certain sorghums and seed potatoes.

Pints -----	\$0.35	$\frac{1}{2}$ Gallon -----	\$1.20
Quarts -----	.65	1 Gallon -----	2.25

### Potassium Permanganate

An excellent germicide used extensively in drinking water for poultry to keep them in healthy condition. Has a very soothing effect on the membranes and linings of chickens' throat and intestines and therefore very extensively used in curing the diseases of these tracts. Price per pound 65c.

### Bulk Dip and Disinfectant

2 to 3 Co-efficient—Used as a disinfectant, germicide, insecticide and antiseptic for poultry houses, kennels, barns and household uses. Diluted with water or oil.

$\frac{1}{4}$ Gallon-----	\$0.45
$\frac{1}{2}$ Gallon-----	.75
$\frac{1}{1}$ Gallon-----	1.35
5 Gallons-----	6.25

### Lactic

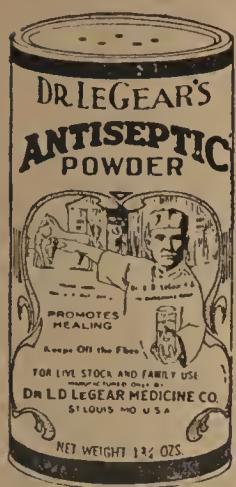
A Pure Edible Lactic Acid

LACTIC gives the handler of live poultry all the active appetizing, digestive and medicinal principles of Buttermilk in a concentrated form, free from all objectionable features of buttermilk. One 6-ounce bottle of LACTIC contains the equivalent of the lactic acid of 30 gallons of buttermilk. 6-oz. bottle 50c.

### SPAGNUM MOSS

Used for hanging baskets of packing plants or bulbs for shipping purposes.

Lb., 30c



## LeGear's Gall Salve

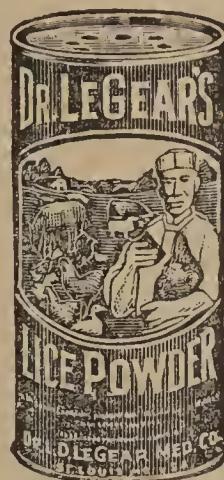
Recommended for sore backs, caused by collars and saddle galls, scratches, sore teats on cows, and minor sores on live stock. Keeps sore softened and you can continue working the horse while using Dr. LeGear's Gall Salve. 2-oz. can 30c.

## Antiseptic Powder

Promotes Healing—It is an excellent antiseptic preparation for treating cuts and sores, barbed wire cuts, saddle, harness and collar galls. Keeps off flies. For flesh wounds and abrasions, livestock breeders find LeGear's

Antiseptic Powder a splendid preparation. Put up in sifter-top cans. Easy to apply—simply dust on.

Small can \$ .30  
Large can \$ .60



## Lice Powder

For chickens, turkeys and live stock. Is a quick, easy and effective way to get rid of lice. Valuable to use in your poultry dust bath for flock treatment. It contains Sodium Fluoride, Sulphur, and Nicotine. Put up in 14-oz. handy sifter top cans. Price 25c.



## LeGear's Screw Worm Killer

A THREE-IN-ONE preparation. It not only kills Screw Worms, but keeps the flies away and promotes healing. It has a sprinkler stopper, which makes it very easy to apply, right into the wound.

2-oz. bottle 30c; 6-oz. bottle 60c.

## LeGear's Liniment

This preparation is a white penetrating liniment, and an efficient counter-irritant for sprains, bruises and muscular soreness and lameness of livestock. Also for muscular aches and pains of man.

2-oz. bottle 30c; 6-oz. bottle 60c.



## LeGear's Blister

Will be found to be an effective blistering ointment for Spavin, Splint of Curb. It will not kill the hair or blemish when used according to directions. We have hundreds of testimonials that it has given entire satisfaction.

Dr. LeGear's Blister is an ointment, and is easy to apply.

2-oz. bottle 75c.



## LeGear's Chick Tablets

An intestinal astringent. Helps chicks to get the right start! When dissolved in the drinking water it has a mild antiseptic effect on the water which is very beneficial to all baby chicks as an intestinal astringent. Cans contain 80 tablets, 50c.

## Dr. LeGear's Dog Remedies

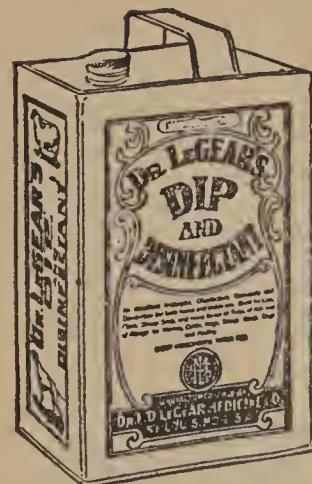
Contains the Most Effective Ingredients Known to Modern Veterinary Science



Tape Worm Tablets	\$ .50
Mange Prescription	.50
Tonic Condition Tablets	.50
Kennel Disinfectant	.50
Flea and Lice Powder	.25
Flea and Shampoo Soap	.50
Laxative Tablets	.50
Pepsin Compound Tablets	.50
Special Tablets (for reducing fever)	1.00
Nerve Sedative Tablets	1.00
Eye Lotion	.50
Cod Liver Oil Concentrate Tablets	50c and \$1.00
Round and Hook Worm Capsules for small dogs	.50
Round and Hook Worm Capsules for Medium Large Dogs	.50

Cod Liver Oil Concentrate Tablets 50c and \$1.00  
Round and Hook Worm Capsules for small dogs .50  
Round and Hook Worm Capsules for Medium Large Dogs .50

## Dr. LeGear's Dip and Disinfectant



An excellent antiseptic, disinfectant, germicide and deodorant for both home and stable use. Good for lice, fleas, sheep scab, and many forms of ticks, itch and mange on horses, cattle, hogs, sheep, goats, dogs and poultry.

Put up in 8-oz. bottle 30c; quart 60c; gallon \$1.50.

**SPECIAL**—Bring in your empty cans and let us fill them with LeGear's Dip and Disinfectant at \$1.25 per gallon.

**LeGEAR'S NICOTINE KAMALA PILLS**—(Adult Size)—An effective preparation against large round worms and also tape worms—a very easy simple individual treatment—no fasting necessary—as the pill is to be given on full crop.

50 Pills \$ .75  
100 Pills 1.25



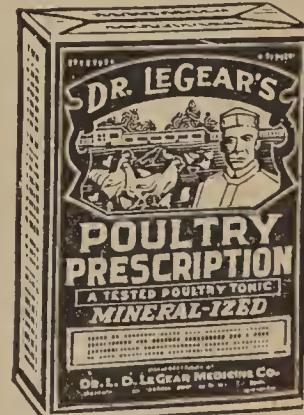
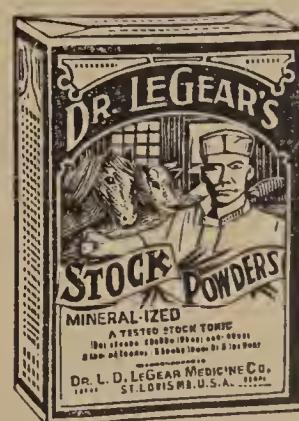
## Dr. LeGear's Cow Prescription



**DR. LeGEAR'S COW PRESCRIPTION**—It is scientifically balanced to make an efficient tonic, appetizer and conditioner for milch cows, heifers and calves. 2 lbs. 50c.



**DR. LeGEAR'S HOG PRESCRIPTION**—A tonic and conditioner. It thus aids assimilation. The advantage of this powder when fed with the slops or in a self-feeder is that it does not throw the hogs off their feed. It furnishes the sucking sows the necessary minerals thereby giving the pigs the right start during first 6 months of their life. A pig should have these minerals to facilitate proper growth and get him ready for the market in the fall. 25c, 50c, \$1.00 sizes; 25-lb. pkg. \$3.00.



**DR. LeGEAR'S STOCK TONIC**—Has been used and recommended by leading farmers and stock breeders for 40 years. It contains mineral and vegetable ingredients scientifically compounded to produce an effective tonic, appetizer and conditioner for cows, horses, mules, sheep and hogs.

Small size pkg.	\$ .25
Medium size pkg.	.50
Large size pkg.	1.00
25-lb. pkg.	3.00
100-lb. bag	10.00

**LeGEAR'S COLIC MEDICINE**—Recommended for all cases of flatulent colic in livestock. You will find in the majority of cases it will relieve your horse in 2 or 3 hours.

4-oz. bottle \$ .75

**DR. LeGEAR'S POULTRY ANTISEPTIC TABLETS**—For the treatment of external swellings of roup, simple catarrh (colds) and to prevent transmitting disease from one bird to another through the drinking water. Every package contains complete directions.

25 tablets 25c 6\$ tablets 50c



## DR. HESS REMEDIES



## Dr. Hess Healing Powder

An Antiseptic Treatment for Open Wounds and Abrasions. For veterinary use it is a recognized remedy for gall, cuts, thrush, mud sores, burns, wire cuts, ulcers, foul in the feet, fistula, chapped teats and surface wounds of every description. It also prevents proud flesh. Being a powder, stable dirt and dust will not stick to it.

Put up in handy adjustable, sifting-top can.

10-oz. can \$0.50  
4-oz. can .25

## Dr. Hess Udder Ointment

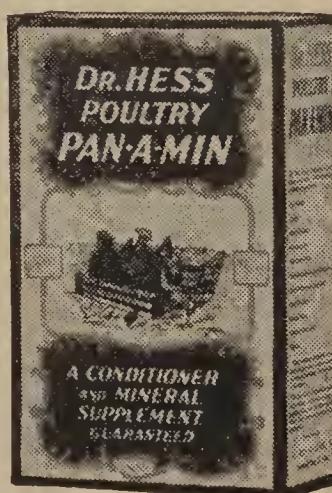
Especially prepared for treatment of injuries and congestion of the udder and teats. Penetrating, soothing, healing. Large handy can, 50¢.



## Dr. Hess Poultry Panamin

Helps make poultry healthier and to make hens lay. Not a stimulant, but a tonic that tones up the dormant organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

100-lb. Drum \$10.80  
25-lb. Pail 3.30  
15-lb. Pkg. 2.20  
7-lb. Pkg. 1.15  
3-lb. Pkg. .55  
1½-lb. Pkg. .30



## Dr. Hess Stock Tonic

IMPROVED—With Minerals

Added—A Conditioner and Worm Expeller—Promotes health, makes hogs, cows and sheep more profitable—keeps horses and mules in good condition. Rids hogs of worms, makes the runts thrive and the whole herd gain faster.

Contains tonics to whet the appetite of cows, laxatives to keep the bowels in order, diuretics for the kidneys, and the needed minerals usually lacking in ordinary rations.

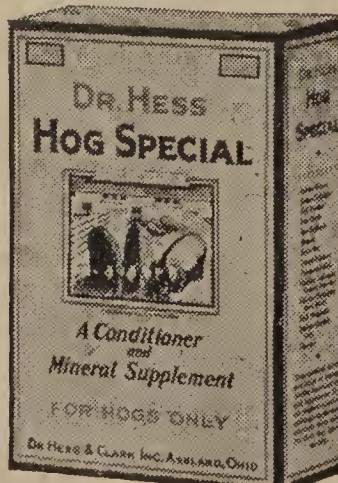
100-lb. Drum \$10.80  
25-lb. Pail 3.30  
15-lb. Pkg. 2.20  
5-lb. Pkg. .75  
3-lb. Pkg. .55  
1½-lb. Pkg. .30



## Dr. Hess Hog Special

A Splendid Conditioner and Worm Expeller for Hogs—Rids hogs of worms. Makes the runts thrive and the whole herd gain faster. Contains tonics to whet the appetite, laxatives to keep the bowels in order, diuretics for the kidneys, and needed minerals usually needed in ordinary rations.

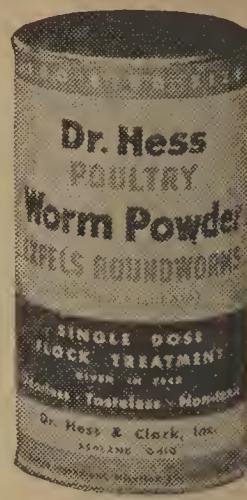
100-lb. Drum \$10.80  
25-lb. Pail 3.30  
15-lb. Pkg. 2.20  
7-lb. Pkg. 1.15  
3-lb. Pkg. .55  
1¼-lb. Pkg. .30



## Hess Poultry Worm Powder

A proven single-dose flock treatment for round worms. Given in mash the expulsion of worms starts in a few hours and is usually completed in from 24 to 36 hours. No fasting or laxatives required. Does not check egg production.

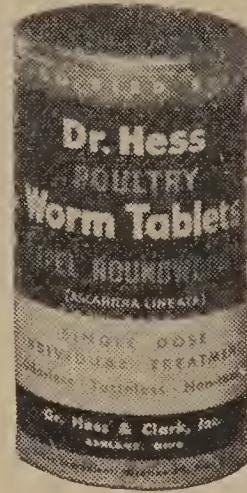
50 Adult Bird size	\$0.50
100 Adult Bird size	.90
250 Adult Bird size	1.90
500 Adult Bird size	3.00
1000 Adult Bird size	5.40



## Dr. Hess Poultry Worm Tablets

The active ingredients of Dr. Hess Poultry Worm Powder in tablet form for individual treatment.

40 Tablets, pkg.	\$0.50
100 Tablets, pkg.	1.00
250 Tablets, pkg.	2.00
500 Tablets, pkg.	3.50
1000 Tablets, pkg.	6.50



## Dr. Hess Chick Tablets

For common diarrhoea, bacillary white diarrhoea, coccidiosis, or any form of bowel trouble affecting poultry. Used as a preventive and as a treatment. Given in the drinking water.

45 Tablets	\$0.25
100 Tablets	.50



## Dr. Hess Poultry Tablets

Of high value in treating roup; slightly astringent, non-irritating and healing.

Use as a local antiseptic and to medicate drinking water. Thus used they aid in preventing the disease. Once dissolved they remain in solution. The water needs no further stirring.

45 Tablets	\$0.25
100 Tablets	.50



## Dr. Hess Fly Spray

Has the odor of the pines. Pleasant to folks, but repelling to flies and mosquitos. Prevents the summer milk slump.

Besides being a most efficient fly repellent it is a disinfectant and deodorant. Will not taint the milk; will not stain or gum the hair. It is a skin cleanser.

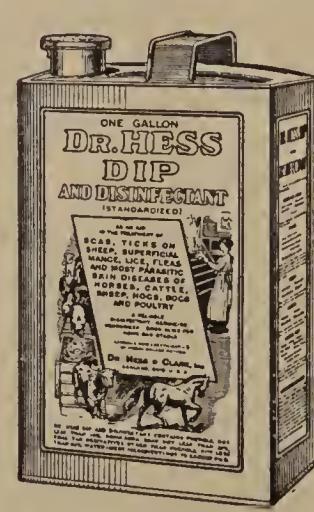
1 Gallon	\$1.50
5 Gallons	6.50



## Dr. Hess Dip and Disinfectant

Kills hog lice, sheep ticks and other animal parasites. For general disinfecting about stables, dairy barns, poultry houses and the household, it is standardized, always uniform in strength. Makes a milky-white emulsion.

Pints	\$0.35
Quarts	.60
½ Gallon	.90
1 Gallon	1.50
5 Gallons	6.50



## ROACHES

EXTERMINATE THEM WITH SATEX  
BLUE SODIUM FLUORIDE—SEE PAGE 24

## SANITATION

PAYS BIG DIVIDENS  
KEEP YOUR POULTRY HOUSES AND DAIRYBARN FREE OF DISEASE AND VERMIN.



## Dr. Hess Louse Killer

Kills lice on poultry, horses and cattle; sheep ticks; bugs on cucumber, squash, and melon vines; slugs on rose bushes; ants. Non-poisonous; can be used in safety on edible plants. Sold in sifting-top cans. 1 -lb. Can \$ .30  
2½-lb. Can .65

## Creosote Dip

15% Crude Carbolic Acid—An excellent liquid spray or paint to put on your poultry house to keep them free from all vermin.

1/4 Gallon	\$0.35
1/2 Gallon	.65
1 Gallon	1.00



## Lee's Germozone

A most effective remedy for diseases affecting the skin and semi-exterior mucous membrane of man, fowl or beast.

For Poultry—Roup, colds, canker, chicken-pox, sore head, swelled head, cholera, bowel trouble, etc.

For Stock—Cuts, sores, wounds, sore eyes or mouth, saddle or harness galls swelling skin diseases, etc.

4 oz. at	\$0.40
12 oz. at	.75
Quart size	1.50
1/2 Gallon	2.50
Gallon	4.50

## Lee's Pickpaste

Lee's Pickpaste is manufactured for controlling and overcoming the vicious habit of toe, wing and vent picking of chicks. It is also soothing and healing.

2-oz. Tube	\$0.25
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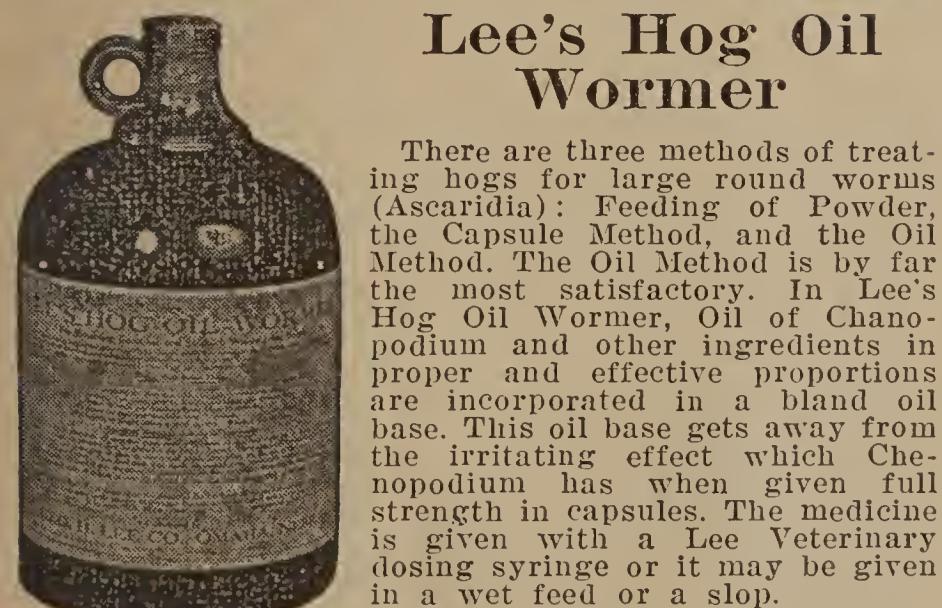
## Lee's Nasal Syringe

In swelled head and other very serious diseases of this type, the upper air passages of the head become filled with mucus. Medicine, to be effective, must come in direct contact with the affected membrane lining.

With this syringe the medicine is forced into the head right where it will get direct action against the disease and, at the same time, this forcing of the medicine into the nasal passages also forces the mucus out of the head. The mucus will come through the nose and eye sockets. Each \$0.75



## Lee's Hog Oil Wormer



There are three methods of treating hogs for large round worms (Ascaridia): Feeding of Powder, the Capsule Method, and the Oil Method. The Oil Method is by far the most satisfactory. In Lee's Hog Oil Wormer, Oil of Chano-podium and other ingredients in proper and effective proportions are incorporated in a bland oil base. This oil base gets away from the irritating effect which Cheno-podium has when given full strength in capsules. The medicine is given with a Lee Veterinary dosing syringe or it may be given in a wet feed or a slop.

### Dosage and Prices:

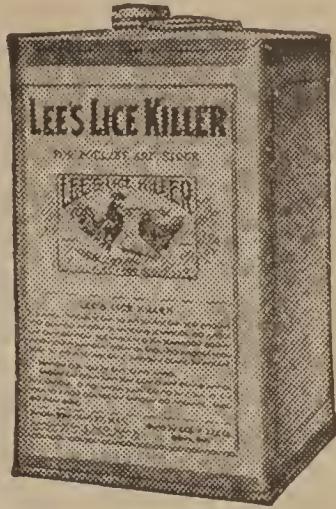
No. of Doses for 40-lb. Pigs		
12-oz. Bottle	16	\$1.00
1 Quart	42	2.00
1/2 Gallon	85	3.50

## Veterinary Dosing Syringe

1-oz. capacity; to be used in giving Lee's Hog Oil Wormer to hogs \$1.25

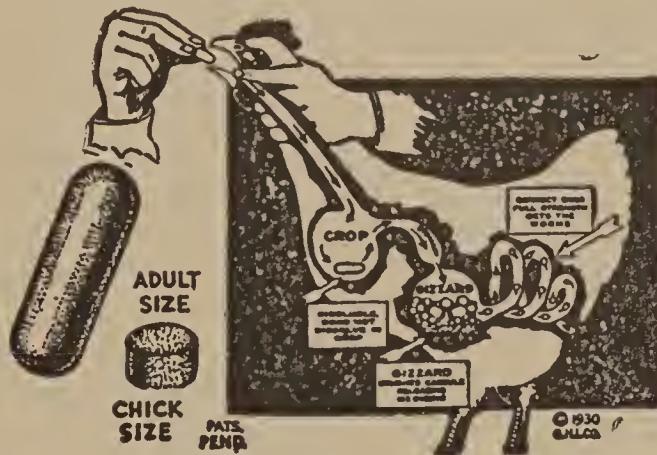
## Lee's Lice Killer

It kills by vapor and contact. Painted on the roost it kills insects with which it comes in contact, and the vapor arising kills lice on the bodies of the chickens as they roost over night, also the insect causing scaly leg. Not mailable. Price—Quart can, 60c; 1/2 gallon, 90c; gallon can, \$1.50.



## Lee's Gizzard Capsules

An insoluble capsule carrying a triple combination worm medicine for Tapeworms, Round Worms and Pin Worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.



### CHICK SIZE

50 Capsules, pkg.	\$0.40
100 Capsules, pkg.	.75
500 Capsules, pkg.	3.25
1000 Capsules, pkg.	6.00

### PULLET SIZE

50 Capsules, pkg.	\$0.50
100 Capsules, pkg.	1.00
500 Capsules, pkg.	4.50
1000 Capsules, pkg.	8.50

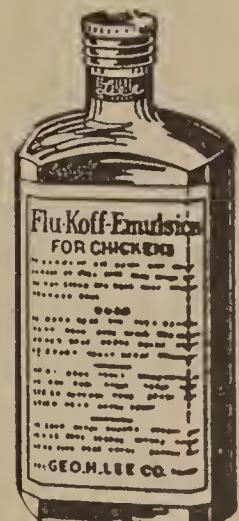
### ADULT SIZE

50 Capsules, pkg.	\$0.75
100 Capsules, pkg.	1.25
500 Capsules, pkg.	5.50
1000 Capsules, pkg.	10.00

## Lee's Vapo-Spray

A combination of healing oils, is sprayed in the air in the hen house at night. Its vapor is breathed into the nasal passages, throat, windpipe and lungs and acts directly on the inflamed parts. Also recommended for hogs.

1-Qt. can	\$0.75
1/2-Gal. can	1.25
1-Gal. can	2.00



## Lee's Emulsion

A cough medicine for poultry and hogs; acts much the same as a cough syrup in human beings. It may be administered in water, thick slop, wet mash, or soaked grain (soaked oats preferred).

INGREDIENTS: Oil Eucalyptus, Oil Pine Tar, Oil Anise, Beechwood Creosote, Chloroform, Camphor, Turpentine, Linseed Oil, Sodium Chloride, Water and Emulsive.

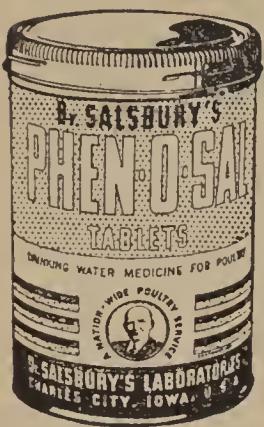
13-oz. Bottle \$1.00

## Lee's Poultry Syringe

Many times in treating sick chickens it becomes necessary to give individual doses of medicine, and if the birds refuse to eat, this can only be done by the use of Lee's Poultry Syringe. Here are a few of its many uses: Individual treatment of sick chickens; individual doses of epsom salts; washing out crop with Germozone in limberneck; doses of castor oil, sweet oil, or mineral oil; feeding milk or thin gruel to sick chickens. 1-oz. capacity 25c; postpaid 30c.

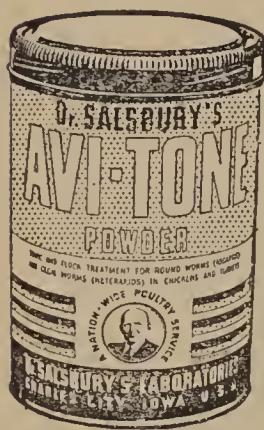
## DR. SALSBURY REMEDIES

## Phen-O-Sal



Excellent aid in the treatment of diarrhoea and coccidiosis of chicks, fowl typhoid, fowl cholera, enteritis, irritation from worms, blackhead in turkeys, also duck and goose cholera. Figure one tablet per chick as a five-day treatment.

25 Tablets	\$ .25
50 Tablets	.50
125 Tablets	1.00
300 Tablets	2.00
500 Tablets	3.00
1000 Tablets	5.50



## Avi-Tone

Flock treatment for round worms, worm preventive and general tonic. For baby chicks and turkeys, growing stock and laying flocks. In powder form.

	No. of Birds		
	Growing	Adult	
10-oz. Pkg.	30	20	\$ .25
3-lb. Pkg.	150	100	1.10
6-lb. Pkg.	300	200	2.00
15-lb. Pkg.	750	500	4.75
25-lb. Pkg.	1,250	825	7.50
50-lb. Pkg.	2,500	1,650	14.00
100-lb. Pkg.	5,000	3,300	27.00

## Avi-Tab Krumbles

A general flock treatment for birds infested with the microscopic varieties of tape worms often associated with paralysis. For treatment at any time where a flock medication is preferred to the individual Caps. Excellent tonic for increasing the appetite. An aid in treating blackhead, thrush and mycosis. May be used in combination with Rakos and Phen-O-Sal.

	No. of Birds		
	Growing	Adult	
2.7 Oz.	35	25	\$ .50
5 Oz.	75	50	.90
10 Oz.	150	100	1.65
1.2 Lbs.	300	200	2.80

## Cam-Pho-Sal

For roup, cold, flu, gapes, bronchitis, brooder pneumonia, etc., in fowls of all ages. Has three times the germ killing strength of carbolic acid.

Small Bottle \$ .60  
Medium Bottle 1.00



## Rakos

A concentrated liquid antiseptic and astringent for aid in treatment of coccidiosis in chickens and turkeys of all ages. An appetizer and tonic. Pint Bottle for 150 to 250 chicks \$1.25



## Mixed Bacterin Fowl

## Cholera-Typhoid Bacterin

A preventive and curative treatment against roup, colds and related diseases affecting the head of chickens and turkeys. 60 Doses—60 c.c. bottle \$ .75  
250 Doses—250 c.c. bottle 3.00

TO PRODUCE BETTER MILK AND CREAM  
STERILIZE ALL DAIRY UTENSILS

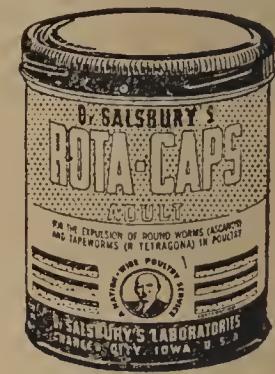
B-K SAVES TIME  
AND LABOR

Kills the bacteria on utensils immediately—fast working and effective

## Rota Caps

Dr. Salsbury's ROTA CAPS have a TRIPLE ACTION that makes them hard on worms, yet easy on the birds: (1) they get large round worms; (2) they remove large tape worms (Tetragona), heads and all, instead of merely desegmenting them. They create their own mild, controlled laxative action.

	Pullet Size	Adult Size
50 Caps	\$ .50	\$ .75
100 Caps	.90	1.35
200 Caps	1.75	2.50
500 Caps	3.50	5.00
1,000 Caps	6.00	9.00



## Fowl Pox Vaccine

To prevent chicken-pox by feather follicle or stick method of vaccination. Specify chicken strain for growing stock and permanent immunity and pigeon strain for laying stock. 100-dose Pkg. \$0.75



Quitman Syringe—Metal (similar to cut) \$1.50



## Don Sung

## Chinese for Egg-Laying

It is a concentrated medicine—no needless bulk or filler—ready to add to your mash feed. It has a direct tonic action on the egg-laying organs and doesn't force or hurt the hens in any way. It produces more eggs by first putting the hen in good health, and then helping to maintain their health.

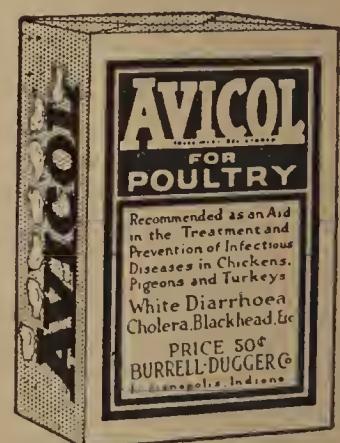
Small size, 50c; large size (3 times the 50c size) \$1.00.

## Avicol

## For White Diarrhoea in Chicks, and Blackhead in Turkeys

Avicol does the work in 48 hours. Almost from the very moment you drop the first Avicol tablet in the drinking water, the sick chicks start to get well. Usually, in a short time, the very ones that seemed too weak and sick to live another day, are running around as lively as crickets, full of pep, hungry, hearty, scratching and pushing for a place at the feeding trough.

Price, 50c; special large size (almost 3 times 50c size), \$1.00.

FOR COLDS  
in  
Poultry  
GroupOver

Use Group-Over at the very first symptoms of Roup or colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention.

Price 50c; large size (3 times 50c size) \$1.00.

Prevent Poultry Diseases  
by Vaccinating Your Flock



## Kill Roundworm While Flock Feeds

Don't waste feed on round worms—kill them. Just feed

### "Black Leaf" Worm Powder

ONCE IN MASH

Single dose does the work. Easy, economical and effective. Saves time, trouble and money. Increases production. Harmless to birds. No odor, taste or bother. We highly recommend "Black Leaf" Worm Powder. Ask for circular.

4 -oz. Pkg., 100 hen size-----\$ .75  
1½-lb. Pkg., 600 hen size----- 2.90

## "Gold Leaf" Tobacco Powder

CONTROLS  
POULTRY ROUND WORM

Mix two pounds of "Gold Leaf" Tobacco Powder with 100 pounds of dry mash. With the large 100-lb. bag, 800 birds can be treated for about 12 cents a day, or at the rate of about 70 birds for 1 cent a day, during treatment period.

2 Lbs.	\$ .30
10 Lbs.	1.00
100 Lbs.	6.25



## Carbolineum

is a pure, unadulterated high boiling anthracene oil—a carbolineum of the highest grade—meeting Uncle Sam's requirements in every respect and it is **SURE DEATH TO MITES AND BLUE BUGS.**

Can be applied with a brush like paint, or sprayed on as preferred. It should not be applied to the chickens. One gallon will go over an ordinary chicken house, size 8x12. ¼ gal. 50c; ½ gal. 90c; 1 gal. \$1.50; 5 gal. \$7.25.



## Super-ol

Kills chicken mites, fowl ticks or "Blue Bugs". A dependable wood preservative. Protects against rot and premature decay. Protects wood from destruction by white ants (Termites). On practically every kind of farm building, it may be used as a paint. It is less expensive than paint, easy to apply and prevents decay. 1 gallon, \$1.75.

## Sodium Fluoride

A preparation highly recommended by the U. S. Government for the control of poultry lice. Also a splendid item for roach control. May be used as a dip or dust. Lb. 30c.

**GROUND PYRETHRUM FLOWERS**—Dust directly on ants, also a splendid ingredient for killing flies, mosquitoes, roaches, etc. We recommend this preparation where a powder is desired. It is very effective and most economical to use. Lb. 45c; 10 lbs. \$4.00.

**BEE BRAND POWDER**—For mosquitoes, roaches, flies, etc. 2½ oz. 25c; 6 oz. 50c.

## TO CONTROL WORMS, LICE, TICKS AND SCAB DRENCH AND DIP SHEEP

with

# "Black Leaf" 40

## Just Paint "Black Leaf 40" ON ROOSTS TO CONTROL LICE ON POULTRY

1-oz. bottle	\$0.35
Covers 12 to 15 running feet of roost.	
5-oz bottle	1.00
Covers 60 to 75 running feet of roost.	
1-lb. bottle	2.25
Covers 180 to 240 running feet of roost.	
2-lb. tin	3.25
Covers 385 to 480 running feet of roost.	
5-lb. tin	5.85
Covers 900 to 1200 running feet of roost.	
10-lb. tin	10.60
Covers 1,900 to 2,400 running feet of roost.	



## COCCIDIOSIS REMEDY

*Stops Losses Now!*

Dead Chicks Lose You Money

S-P Coccidiosis Remedy Will Keep  
Them Alive

Given in the drinking water. No starving of birds—no inconvenience. Easy to apply, is an excellent preventive. One box treats 100 to 125 chicks. Simply dissolve in the water.

Price per box, postpaid-----\$1.00



Rids poultry of all blood sucking lice, mites, fleas, blue bugs, cleans them of all intestinal worms and parasites. It is also a wonderful poultry tonic, blood purifier, health builder and egg producer. It contains lots of sulphur, compounded scientifically with other health building ingredients. Known remedies for preventing disease. "Prevention is cheaper than cure." Keep your flocks free of insects and intestinal worms and their system in good condition through the winter and you will get good hatchings and strong chicks in the spring. A supply to last you through the winter and spring will cost very little. Give it a six days' trial at our risk. Money back if not pleased. 50c and \$1.00 per bottle.

## Nux Vomica

To be mixed with poultry feed to kill hawks and rats. Will not affect poultry. Lb. 40c.

Poultrymen, Dairymen, Rabbit Breeders, Farmers  
Use and Recommend

## B-K

Disinfectant — Antiseptic — Deodorant — Purifier

Because it is absolutely dependable in helping to prevent the spread of infectious diseases, and because it is so inexpensive to use. They know it is a powerful non-poisonous disinfectant, easy to apply—that has proved its efficacy as a germ killer for twenty years.

You, too, will find it helpful to use B-K to prevent the spread of infectious diseases. Full directions come with every bottle.

4 oz., 30c; 10 oz., 50c; 1 qt., 90c;  
1 gal., \$2.00; 5 gal., \$8.50.



## B-K Powder

B-K in powder form, reduces the expense of shipping it around the country. It is of course not quite so convenient to use as in the liquid form. Full directions for its use come with each bottle. 9 1-3 oz. bottle, 75c; 1 3-4 lb. bottle (makes 3 gallons of 3 1/2 per cent sodium hypochlorite solution), \$1.50 each, postpaid.



Use freely to massage sprained or stiff muscles and joints.

8-oz. tube 50c; 1-lb. can 90c; 5-lb. can \$4.25.

## Udder Help

Udder Help is the ideal all-purpose ointment for livestock. Its healing, antiseptic properties make it useful in all cases for cuts, sores, bruises, cracked or chapped teats, treating non-contagious garget.

Use freely to massage sprained or stiff muscles and joints.

## "Old Hickory" Smoked Salt

THE ORIGINAL AND ONLY GENUINE SMOKE SALT

There is only one way of getting ham, bacon and other home cured meats with genuine hickory flavor without the work and worry or tending to a smokehouse. OLD HICKORY SMOKED SALT SUGAR CURE is a perfect blending of fine salt, pure sugar, Chilean Saltpetre and genuine hickory wood smoke. It sugar cures and smokes at the same time—all in one operation—no smokehouse is needed.

THE OLD HICKORY SMOKE SALT curing method is the easiest and most dependable. In half the time and with half the labor you can cure and smoke your own meats—without the loss from smokehouse shrinkage and spoilage in the cure. The rich, natural meat juices and tasty fats are all retained and every piece of meat is cured and flavored uniformly and thoroughly—clear through to the bone.

Approved by Good Housekeeping Bureau of Foods.

2-lb. Drum-----\$ .25  
9-lb. Drum----- .90

## Martin's Screw Worm Killer

A three-in-one preparation. It not only kills Screw Worms but keeps the flies away and promotes healing. It has a sprinkler stopper, which makes it very easy to apply right into the wound.

2 1/2-oz. Can----- \$ .25

## Peerless Screw Worm Killer

Kills the worms quickly without any bad effects on the wound and assists in healing. Sprinkler top.

4-oz. size----- \$ .25  
8-oz. size----- .50  
Pints----- 1.00  
Quarts----- 1.50



## Satex Insect Spray

A RELIABLE HOUSEHOLD INSECTICIDE

Destroys flies, moths, mosquitoes, bedbugs, beetles, silverfish, fleas, chicken lice, mites and their eggs. Flyrol, sprayed thoroughly within the house is a sanitary measure insuring against contagion. Flyrol is 100% active and non-poisonous. Will not stain the daintiest fabrics. No unpleasant odor. Use Flyrol freely during spring and summer months.

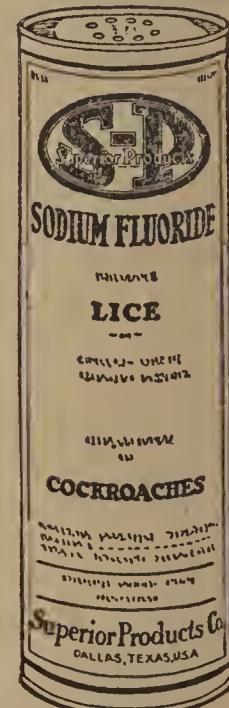
Pint cans-----	\$ .30
Quart cans-----	.50
Gallon cans-----	1.50
5-Gallon cans-----	6.25

## Satex Blue Sodium Fluoride

### KILLS AND CONTROLS ROACHES

Numerous practical tests conducted in lunch rooms, bakeries, homes, etc., have shown that with the use of BLUE SODIUM FLUORIDE, roaches can be completely exterminated with very little trouble and cost. With the use of some dust-gun, the Sodium Fluoride can be thoroughly dusted over the shelves of pantries, cupboards, back of sinks, under tables, back of baseboards or any runway or hiding place of the roaches. The immediate effect is to cause the insects to come out of their retreats and rush more or less blindly, showing evidence of discomfort, to be followed in the course of a few hours by their death. Sodium Fluoride acts on cockroaches both as a stomach poison and as a contact poison.

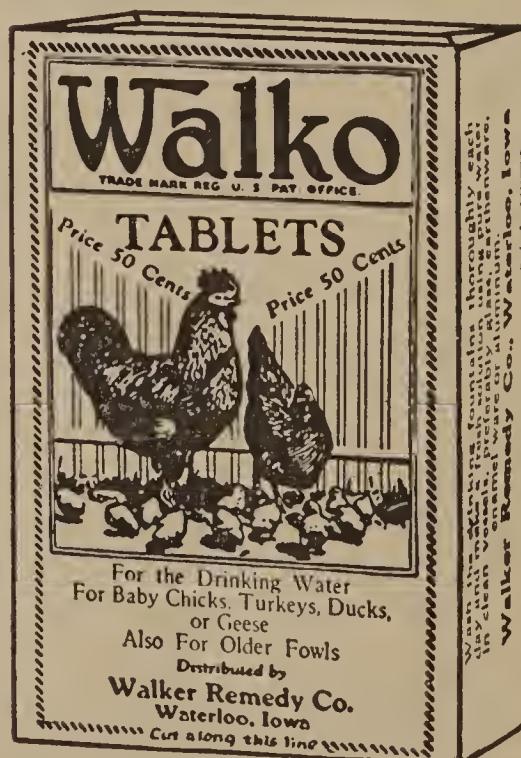
1-lb. Can 30c (40c postpaid).



## EGG-O-LATUM

### EGG PRESERVATIVES

Rub a fresh egg with Egg-o-latum. Set it away on end in a cool dry cellar and it will keep perfectly fresh for one year. Price 50c, postpaid.



Sulphur Salt—50-lb. block-----

## Walko Tablets

Especially valuable for white diarrhoea among incubator chicks. Tends to increase strength and vitality and should be given in drinking water as a preventive from the time chicks are out of the shell. 50c and \$1.00 pkgs.

## SALT

All Prices Subject to Change without notice  
Fine Salt-----

25-lb. sack-----	\$ .35
100-lb. sack-----	.95
Stock Salt-----	
100-lb. sack-----	.75
Ice Cream Salt-----	
100-lb. sack-----	.85
Plain Salt-----	
50-lb. block-----	.45
	.55

RABBOTENE MEDICATED SALT SPOOLS (Prepared especially for Rabbits)—Compounded from pure mineral salt with iron, sulphur, potassium iodide and selected medicinal roots and herbs of great value to digestion and assimilation in rabbits. 15c each; 2 for 25c; roll of 10 spools, \$1.00.

SULPHURIZED SALT SPOOLS—5c each; 6 for 25c.

PLAIN SALT SPOOLS—5c each; 6 for 25c.

## One-Rub Fleafinish

**ONE-RUB FLEAFINISH** is the latest discovery for the complete extermination of fleas and lice on dogs, cats or any other animal. One-Rub differs from the general run of flea powders in that it is not just another flea powder, but an absolutely guaranteed flea killer and the most economical because it only requires a small quantity on the animal's back between the shoulders rubbed in on the skin, and in less than 24 hours every flea on the animal will be dead.

**ONE-RUB** need only be rubbed in on the back between the shoulders to kill all fleas. For lice, powder the animal all over. **ONE-RUB** is not a poison and is harmless to human beings, domestic animals and poultry, but is too strong for use on canaries, as they sleep with head under wing.

1 -oz. Sifter Top Can	\$0.25
2½-oz. Sifter Top Can	.50

**MILK BOTTLE CAPS**—Will fit any standard milk bottle. 30c per lb.; 10 lbs. \$2.75.

**BUTTER CARTONS**—85c per 100, weight 3 lbs.; \$7.50 per 1,000, weight 30 lbs.

**BUTTER PAPER**—For wrapping 1-lb. moulded butter. 35c per lb.; 3 lbs., \$1.00.

**FLOWERED SULPHUR**—For feeding with salt, etc. 1 lb., 10c; 10 lbs., 75c; 100 lbs., \$5.00.

**EPSOM SALTS**—Well known cathartic. Bowel regulator for stock and poultry. 1 lb. 10c; 3 lbs. 25c; 14 lbs. \$1.00; 100 lbs. \$4.50.

## Cod Liver Oil

To be used in poultry mashes. Experience has proven that Cod Liver Oil is very beneficial to poultry when mixed in fresh with mashes, but is of no value where it is mixed in and exposed to the air for a considerable length of time.

¼ gal. 60c; ½ gal. \$1.10; 1 gal. \$2.00; 5 gal. \$8.50.

## Biotol

### A NEW ECONOMICAL SOURCE OF VITAMIN D

Every poultryman knows the value of Vitamin D in a well-balanced poultry ration. Even under the most favorable conditions, it is essential for strong bone structure and high egg production.

In BIOTOL biologically tested Vitamin D Oil, you get this new high-potency Vitamin D carrier at its very best—and at lowest possible cost.

BIOTOL is highest grade, selected sardine oil, produced by the California Packing Corporation with the same care which has made its DEL MONTE Brand Food Products world-famous for quality.

Quart	\$0.40
½ Gallon	.70
1 Gallon	1.25
5 Gallons	5.50

## Nicotox

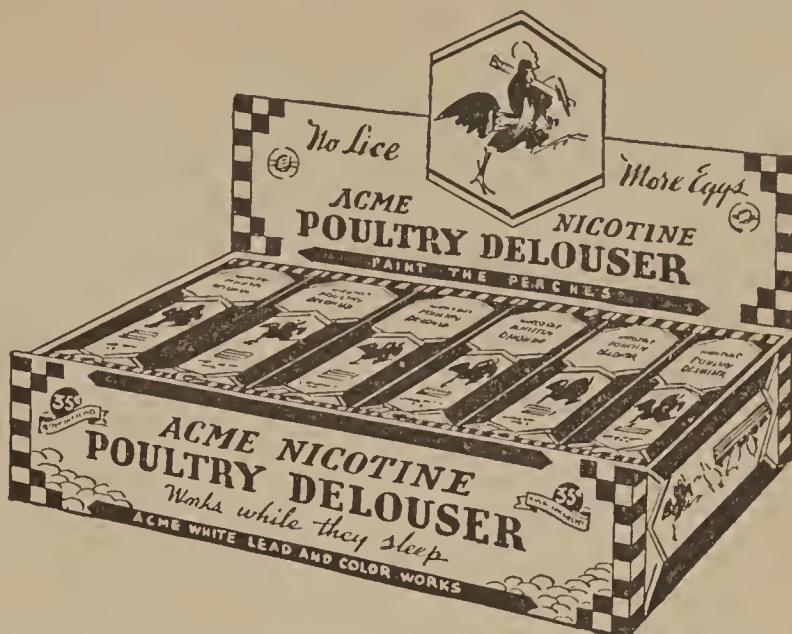
### THE NEW MODERN POULTRY AND LIVE STOCK DELOUSER

You do not handle a bird. There is no powder, liquid, or grease to be rubbed in, dusted or sprayed on to every bird. Just a few strokes with a paint brush and you can easily and economically delouse your entire flock whether you have 20 or 2,000 birds. The low cost and efficiency of Bonide NICOTOX makes it true economy to "just paint the roosts" whenever the birds need it. The new modern Bonide NICOTOX method does away with the necessity of using messy powders, ointments, dips, etc., which require tedious labor and usually interfere with egg production.

Bonide NICOTOX is a new, improved Nicotine Sulphate formula, stronger and has lasting qualities superior to those of any other similar product on the market. It costs about half the price of similar preparations. NICOTOX takes all the trouble, labor and high cost out of delousing poultry, so now you cannot afford not to delouse your flocks.

Prices and Sizes	Net Wt. per can
½ Pts. \$0.75—Enough to delouse 200 hens	10 oz.
Pts. 1.25—Enough to delouse 500 hens	1½ lbs.
Qts. 2.00—Enough to delouse 1,000 hens	2½ lbs.

## Nicotine Poultry Delouser



**ACME NICOTINE POULTRY DELOUSER** is made on a patented formula, which causes the fuming of nicotine to be retarded, making it last longer. The insects succumb to this more prolonged action as well, or better, than to a brief, powerful fumigation. Just paint on the roost.

2-oz. Tubes, each	\$ .35
5-oz. Tubes, each	.85
Pints (1¼ lbs. net), each	2.00
Quarts (2½ lbs. net), each	3.00

## Flower Pots

We pack as carefully as possible but they are shipped at purchaser's risk of breakage. Shipping charges not prepaid. Add 20% to these prices for packing charges.

Each	Each
2 in.	\$ .03
3 in.	.03
4 in.	.05
5 in.	.06
6 in.	.10
8 in.	.20

## Pot Saucers

Each	Each
4 in.	\$ .04
6 in.	.05
8 in.	.10
10 in.	.15
12 in.	.20
14 in.	.35
16 in.	.40



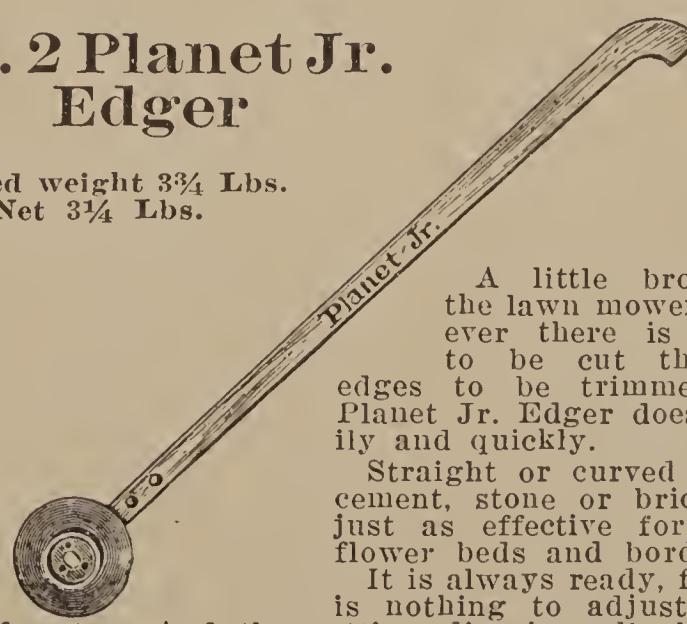
## Fern or Begonia Pots

They are not as deep as the regular flower pots and are used a great deal for growing Ferns and Begonias in; also Asparagus Plants, etc.

Each	Each
6 in.	\$ .10
8 in.	.15
10 in.	.25

## No. 2 Planet Jr. Edger

Packed weight 3¾ Lbs.  
Net 3¼ Lbs.



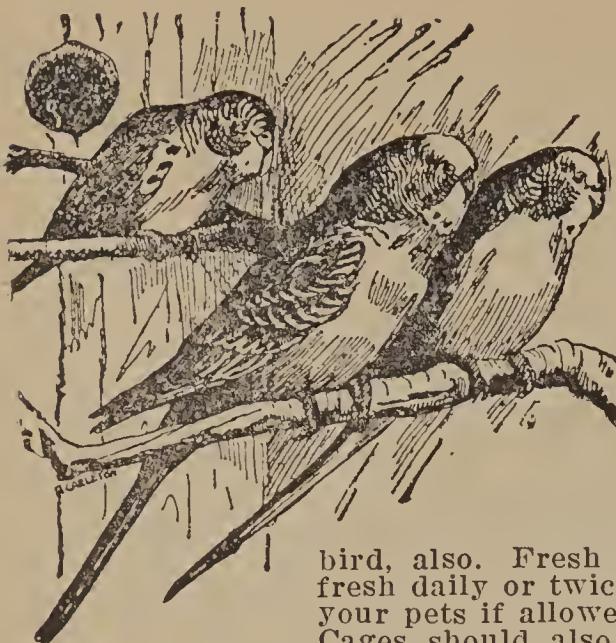
Planet Jr.

A little brother to the lawn mower. Wherever there is a lawn to be cut there are edges to be trimmed. The Planet Jr. Edger does it easily and quickly.

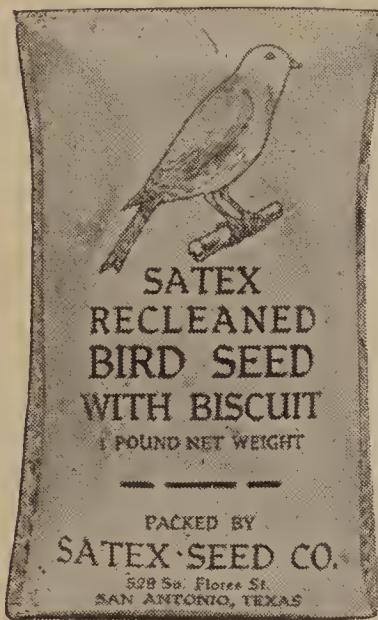
Straight or curved walks—cement, stone or brick. And just as effective for edging flower beds and borders.

It is always ready, for there is nothing to adjust or get out of order. And the cutting disc is well sharpened and tempered.

Each \$1.65



## Satex Mixed Bird Seed



A blend of the finest seeds to be found on the market double recleaned in order to remove all foreign particles and dust, containing Sicilian Canary, Bird Rape and Millet, mixed in the proper proportions for your bird's health and song. Each package is packed with bird exercise ball.

1-lb. package with exercise ball	\$0.15
Postpaid	.25
Love Bird Mixture: per lb.	.10
Sicilian Canary Seed: per lb.	.15
Hemp: per lb.	.15
Maw or Poppy Seed, per lb.	.40
Millet, per lb.	.10
Bird Rape, per lb.	.15
Sunflower Seed, per lb.	.15

Maw or Poppy Seed, per lb. .40  
Millet, per lb. .10  
Bird Rape, per lb. .15  
Sunflower Seed, per lb. .15

## Magic Song Restorer

### THE IDEAL SONG AND HEALTH FOOD

A mixture which we are glad to recommend to our customers as producing the best results. Containing more expensive ingredients than other song restorers. Contains egg flakes unexcelled for young birds.

1 1/4-oz. pkg	\$ .10
3 1/2-oz. pkg	.20
5 -oz. pkg	.30



## Philadelphia Bird Food Co.



Red Gravel, small size	15c
Red Gravel, large size	25c
Silver Gravel, small size	15c
Silver Gravel, large size	25c
Song Restorer Drahotas	15c
Mite Powder for Birds	25c
Nesting Hair in boxes	10c
Nesting Food, box	25c
Orange Color Food	25c
Moultine Pepper	25c

## Bird Feed and Remedies

### CARE OF BIRDS

The care of birds of all kinds is extremely simple. Proper food, plenty of fresh water, absolute cage sanitation—and your bird will live its allotted life. Care should of course be used to see that birds are not placed in draughts. Cage birds are not accustomed to draughts and cannot endure them without developing colds and often pneumonia.

The dealer from whom you purchase your bird is the logical party to tell you what to feed it and how to take care of it—and you should be sure to ask for this information.

Cage sanitation implies a daily change and cleaning of the cage. For the smaller birds, sand should be kept in the bottom of the cage, and this sand should be changed daily. Parrots should have grit in the bottom of their cage, and this should be changed daily. If you use a litter in the bottom of the cage, we suggest that a small cup of grit be made available for the bird, also. Fresh water is essential. All birds must have water and it should be furnished fresh daily or twice a day. Birds should be kept free from mites, lice, etc. These pests will kill your pets if allowed to breed without disturbance. Mite powders applied to the birds are good. Cages should also be freed either with scalding water or sprayed with Flyrol. For prompt service and sufficient postage for delivery see page 1.



### French's Bird Feeds and Remedies

French's Mixed Bird Seed	12c
French's Gravel	10c
French's Bird Charcoal	10c
French's Parrot Medicine	25c
Burnett's Bird Gravel	18c

### Spratt's Bird Remedies

Spratt's Egg-Flake and Fruit, 1-lb. pkg.	25c
Spratt's Mixed Bird Seed, pkg.	25c
Spratt's Sing Song, per tin	15c
2 for	25c
Spratt's Orange Color Food, pkg.	25c
Spratt's Moulting Food, pkg.	25c
Spratt's Cod Liver Oil Cage Bird and Nestling Food, pkg.	15c
Spratt's Finch Mixture	25c
Spratt's Parrot Mixture	20c
Spratt's Parrot Tonic	25c
Spratt's Mocking Bird Food	25c



CUTTLE FISH BONE  
Oz. 10c Lb. 65c

### Haller's Bird Remedies

Mocking Bird Food	35c
Scaly Leg Oil	25c
Feather Restorer	25c
Health Food	25c
Bird Cage Wash	25c
Bird Bath	25c
Bird Tonic	25c
Bird Nesting	10c
Lice Powder	25c
Moulting Food	25c
Bird Bitters	25c
Nestling Food	15c
Poppy Seed	25c
Hemp and Pepper	10c
Ha-Ha Song Feed	25c
Health Grits	10c
Burnett's Louse Powder	25c
Burnett's Bird Tonic	15c



### Fish Foods

Spratt's Wafer	\$0.08
Spratt's Granulated	.10
Zeke Turtle Food	.10
Spratt's Ant Eggs	.25

NOTE—We can get any style leg band you desire and numbered up to 1,000. It will take from one to two weeks to fill these special orders. 25% of amount of order required when sending in order. Mail us sample or picture of band you desire if not listed in this catalog.

## Bird Cage Supplies

Feed Cup, Crystal. Open or closed top, each	\$ .10
Non-breakable Feed Cups	.20
Bird Nests, Hendryx	.10
Bird Nests, Lindemann	.10
Nesting Hair	.10
Perch Stock, per foot	.10
Leg Bands, each	.01
Cage Swings	.10
Spratt's Mite Traps	.25
Canary Bath House, each	.75
Egg Food Cup, each	.05
Opal Bath Tubs, 4½ inches, each	.10
Opal Bath Tubs, 5¼ inches, each	.15
Wall Brackets, nickel, 12 inches, Style Q, each	.20
Wall Brackets, brass, 12 inches, Style I, each	.25
Cage Springs, Medium, No. 16, each	.15
" Small, No. 145, each	.10
No. 282, Brass Chains and Springs, each	.30
Feed Cup, Opal, Open or Closed Top, each	.15

## CLOSING OUT BIRD CAGES and STANDS

We Carry a Complete Stock of BIRD CAGES and STANDS and will quote you prices upon request.

## Sergeant's \*Dog Medicines

Nerve Sedative (Run-Fit) Medicine	\$1.20
Special (Distemper) Medicine	1.20
Mange Medicine	.60
Mange Medicine (no tar odor)	.75
Condition Pills	.60
Sure Shot Capsules for Worms	.60
Sure Shot Liquid for Worms	.60
Tape Worm Medicine	.60
Arsenate and Iron Pills	.60
Canker Wash for the Ear	.60
Mouth Wash (for the mouth)	.60
Pepsin Tablets (for indigestion)	.60
Intestinal Astringent (Diarrhoea) Medicine	.60
Expectorant (Cough Medicine) for Colds	.60
Diuretic (Rheumatic) Pills	.60
Dog Rub, a liniment	.60
Eye Wash	.60
Constipation Capsules	.60
Carbolic Tar Soap	.25
Skip Flea Soap, for fleas and lice	.25
Skip Flea Powder	.25
Puppy Worm Capsules	.60
Shampoo Soap	.25
Disinfectant, 4-oz. bottle	.25

## Delcreo Dog Remedies

Delcreo Tonic and Conditioner	\$ .75
Delcreo Vermifuge	.60
Delcreo Laxative	.35
Delcreo Worm Tablets	.65
Delcreo Distemper	1.50
Delcreo Worm Tablets, toy dogs	.65

## Q-W Dog Remedies

Q-W Flea Powder	\$1.00
Q-W Mange Soap	1.00
Q-W Flea Oil and Coat Grower	1.00
Q-W Eye Salve	1.00
Q-W Diarrhoea and Dysentery Tablets	1.25
Q-W Fit and Sedative Tablets	1.25
Q-W Red Blood Builder	1.00
Q-W Constipation Pills	1.00
Q-W Ear Canker Lotion	1.25
Q-W Worm Capsules	.65
Q-W Healing Salve	1.00

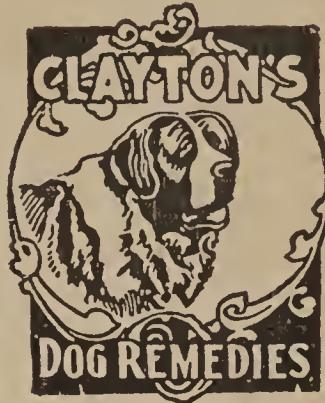


## Glover's Dog Remedies

Glover's Nerve Sedative	\$0.65
Glover's Sore Foot Medicine	.65
Glover's Diarrhoea Medicine	.65
Glover's Vermifuge	.65
Glover's Sulphur Tablets	.65
Glover's Medicated Soap	.25
Glover's Condition Pills	.65

## Clayton's Dog Remedies

Kill Flea Powder	\$0.35
Kill Flea Soap	.25
Ceoline Dog Soap	.25
Condition Pills	.60
Puppy Tonic	.60
Disemperine	.60
Distemperine Tablets	.60
Worm Bullets	.60
Worm Pills	.60
Diarrhoea Tablets	.60
Blood Pills	.60
Vermifuge Capsules	.60
Vermifuge Liquid	.60
Tape Worm Expeller	.60
Mange Medicine	.60
Digestive Tablets	.60
Laxative Pills	.60
Canker Lotion	.60
Fit Remedy	.60
Skin Medicine, toy dogs	.60
Cod Liver Oil with Hypophosphates of Lime and Soda	1.00



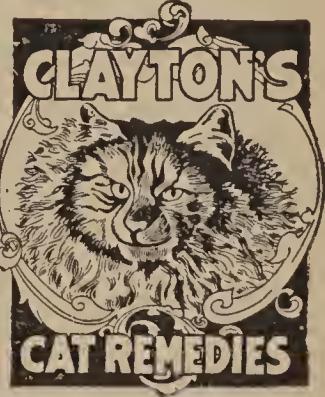
## Red Chain Dog Nuggets

A perfectly balanced food that is not only a complete ration but is so economical that it is easily afforded by any dog owner. Composed of such ingredients as dried ground meat, dried skim milk, ground wheat, cornmeal, steam cooked oatmeal, corn germ oil meal, cod liver meal. Compressed into nugget form, they supply food in a more natural form.

1 Pound	\$ .10
3 Pounds	.25
25 Pounds	1.50
100 Pounds	5.50

## Clayton's Cat Remedies

Cat Distemperine Tablets	\$0.60
Cat Laxative Tablets	.60
Cat Digestive Tablets	.60
Cat Tape Worm Expeller Tablets	.60
Cat Vermifuge (liquid)	.60
Cat Canker Lotion Tablets	.60
Cat Fit Tablets	.60
Cat Diarrhoea Tablets	.60
Cat Wash and Disinfectant	.25
Cat Mouth Wash	.60
Cat Eye Lotion	.60
Cat Cough Remedy	.60
Cat Soap	.25



## Complete Stock of DOG SUPPLIES

Blankets, Sweaters, Collars, Leashes, Harness, Muzzles, Etc. Should you be interested in any of these items, we would be glad to mail you a price list.

## Free Dog Book

Polk Miller's famous book on the care, feeding and breeding of dogs will be sent free to all dog owners and dog lovers.

# VEGETABLE PLANTING SCHEDULE

Name of Vegetable	Quantity required for 100 feet of row	Quantity required for one acre	Distances apart in inches		Depth of planting in inches	Time of Planting	Mature in days—except as noted
			Rows	In Rows			
Asparagus Plants	60 to 80	9,680	36	15 to 20	8 to 10	January and February	1 year
Beans, Snap	1 lb.	30 to 60 lbs.	20	3 to 4	1	Mar. to May; Aug. to Oct.	40 to 60
Beans, Pole	1/2 lb.	15 to 20 lbs.	36	12 to 15	1	Mar. to May; Aug. to Oct.	50 to 80
Beans, Lima, Bush	1 lb.	30 to 60 lbs.	20	3 to 4	1	Mar. to May; Aug. to Sept.	60 to 90
Beans, Lima, Pole	1/2 lb.	15 to 20 lbs.	36	12 to 15	1	Mar. to May; Aug. to Sept.	60 to 80
Beets	2 oz.	4 to 5 lbs.	12	1 to 3	1	Feb. to May; Sept. to Oct.	60 to 80
Broccoli	1/4 oz.	1/4 lb.	30	1 to 2	1	April to July	112 to 126
Cabbage, Early	1/4 oz.	1/4 lb.	24	12 to 18	1/2	October to December	90 to 130
Cabbage, Late	1/4 oz.	1/4 lb.	24	16 to 24	1/2	June and July	90 to 130
Cabbage Plants	80 to 100	9,680	24	12 to 15	2	Feb. to May; Aug. to Sept.	75 to 120
Carrots	1 oz.	3 to 4 lbs.	15	1 to 2	1/2	Feb. to Apr.; Aug. to Oct.	60 to 110
Celery	1/4 oz.	1/4 lb.	20	10 to 12	1/2	Feb. to Apr.; Aug. to Sept.	100 to 125
Collards	1/2 oz.	1/2 lb.	18	4 to 8	1/8	August to October	120 to 150
Corn, Pop	1/2 lb.	7 to 10 lbs.	20	10 to 12	1/2	September to May	100 to 125
Corn, Sweet	1/2 oz.	1 to 2 lbs.	24	12 to 18	1	March to July	90 to 100
Cucumber	1/8 oz.	7,260	24	18 to 24	1	Feb. to April; August	60 to 75
Egg Plant Seed	50 to 65	1/2 to 1 lb.	18	4 to 6	1/2	March to May; August	100 to 150
Egg Plant Plants	1 oz.	1/2 to 10,000	24	12 to 18	1/2	January to July	85 to 175
Endive	100	1/2 to 1 lb.	15	2 to 3	1/2	Feb. to April; August	1 to 2 years
Horseradish Roots	1 oz.	1/2 to 1 lb.	15	2 to 4	1/2	February and March	85 to 125
Kale	1/2 oz.	1 to 2 lbs.	15	4 to 6	1/2	October to March	60 to 80
Kohlrabi	1/2 oz.	1/2 to 1 lb.	18	3 to 4	1/2	September to March	60 to 90
Lettuce	1/2 oz.	1 to 2 lbs.	24	12 to 18	1/2	September to March	100 to 135
Muskmelon or Cantaloupe	1 oz.	1 to 3 lbs.	48	10 to 12	1	March to May; July to Nov.	40 to 60
Mustard	2 oz.	2 to 3 lbs.	24	10 to 12	1	Feb. to May; July to Nov.	90 to 125
Okra	1 oz.	3 to 5 lbs.	24	1 to 2	1	March to July	125 to 150
Onion Seed	1 oz.	1 to 3 lbs.	48	1 to 2	1	October to April	125 to 150
Onion Plants	300	30,000	24	1 to 2	1	January to May	75 to 100
Onion Sets	2 lbs.	6 to 12 bu.	12	1 to 2	1	Jan. to Apr.; Aug. to Sept.	90 to 110
Parsley	1/2 oz.	3 to 5 lbs.	12	1 to 2	1/4	September to May	125 to 150
Parsnips	1/2 oz.	3 to 5 lbs.	12	3 to 4	1/2	Feb., March and September	40 to 75
Peas	1 to 2 lbs.	30 to 60 lbs.	15	1 to 2	3	Jan. to Mar.; Aug. to Nov.	100 to 140
Pepper Seed	1/8 oz.	1/4 lb.	18	1 to 2	1/2	December to March	90 to 130
Pepper Plants	80 to 100	9,680	18	12 to 15	2	March to June	20 to 50
Potato, Irish	5 to 6 lbs.	600 lbs.	24	12 to 15	6 to 8	February to April	1 to 3 years
Potato, Sweet, Slips	65	10,000	36	18 to 24	2 to 3	March to July	115 to 175
Pumpkin	1/2 oz.	1 to 2 lbs.	60	6 to 72	1/4 to 1/2	September to May	50 to 70
Radish	2 oz.	8 to 10 lbs.	12	1 to 1 1/2	3 to 4	January, February, March	60 to 80
Rhubarb Roots	35	4,000	36	1 to 2	1/2	February to April; Sept. to Nov.	100 to 140
Salsify	1 oz.	2 to 5 lbs.	15	1 to 2	1	March to September	100 to 140
Spinach	1/4 lb.	10 to 25 lbs.	12	24	1 to 1 1/2	April to August 15th	85 to 100
Squash, Bush	1 oz.	2 to 3 lbs.	24	36	1 to 1 1/2	December to July	50 to 80
Squash, Late	1/8 oz.	2 to 1/4 lb.	36	36	1 to 1 1/2	April and May	115 to 150
Tomato Seed	50 to 65	2,725	24	18 to 24	1/2 to 1	Feb. to May; July to Nov.	50 to 80
Tomato Plants	1 oz.	1 to 2 lbs.	15	1 to 3	1/2 to 1	March to May	115 to 150
Turnips	1/2 oz.	1 to 3 lbs.	60	72	1		
Watermelon							

**SATEX SEEDED COMPANY**  
529 SOUTH FLORES STREET  
SAN ANTONIO, TEXAS

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